



Mr. Mcebo Mkhathshwa
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Date:
25 October 2024

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LRP01PLA000 _0425/20241111

Dear Mr. Mkhathshwa

LETHABO POWER STATION EMISSION MONTHLY REPORT FOR OCTOBER 2024

Please find attached Lethabo Power Station emission report for the month of October 2024.

Also attached are the Ambient Air Quality Monitoring Report, Complaints Register and the Fugitive Dust Fallout Monitoring Report for October 2024.

For any additional information please do not hesitate to contact us.

Yours sincerely

pp**Karabo Rakgolela**
GENERAL MANAGER
2024/12/02

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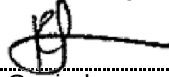
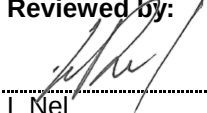
Eskom Holdings SOC Ltd Reg No 2002/015527/30

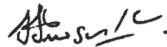
	Report	Lethabo Power Station
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Report name: Lethabo Power Station	Reference number: LRP01PLA000 _0425/20241111
October 2024	Document Type: Report
Emission Report	Area of Applicability: Environment
	Report Date: November-2024
	Classification: Controlled Disclosure

Signatures:

Compiled by:  B Moletsane System Engineer	Verified by :  W de Klerk Senior Advisor	Reviewed by:  Nathi Mazibuko BPE Manager
Date: 21/11/2024	Date: 2024 11 22	Date: 2024/11/25

Reviewed by:  C Govinden PE Manager	Reviewed by:  L Nel C&I Manager	Reviewed by:  M Hariram Environmental Manager
Date: 2024-11-25	Date: 2024-11-25	Date: 2024-11-25

Reviewed by:  Thuli Njapha Engineering Manager	Approved by:  H Sewsunker Technical Manager	
Date:	Date: 2024/11/29	

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LETHABO POWER STATION MONTHLY EMISSIONS REPORT

Atmospheric Emission License FDDM-MET-2011-08-P1


1. RAW MATERIALS AND PRODUCTS

Raw Materials and Products	Raw Material Type	Units	Maximum Permitted Consumption Rate	Consumption Rate Oct-2024
	Coal	Tons	2 000 000	988 371
	Fuel Oil	Tons	1 700	778.010
Production Rates	Product / By-Product Name	Units	Maximum Production Capacity Permitted	Indicative Production Rate Oct-2024
	Energy	GWh	2 834.640	1 401.849
	Ash	Tons	770 000	353 737.992
	RE Ash	kg/MWh	Not Specified	252.337

Note: Maximum energy rate is as per the maximum capacity stated in the AEL: $[3\,810\text{ MW}] \times 24\text{ hrs} \times \text{days in Month}/1000$ to convert to GWh.

2. ENERGY SOURCE CHARACTERISTICS

Coal Characteristic	Units	Stipulated Range	Monthly Average Content
Sulphur Content	%	0.656 (Standard)	0.720
Ash Content	%	37.37 (Standard)	35.790

Note: The "standard" is not necessary a limit, but merely a optimum indication, it will fluctuate as the coal quality changes. The Stipulated Range are the Station acceptance test values.

3. EMISSION LIMITS (mg/Nm³)

Associated Unit/Stack	PM	SO ₂	NO _x
Unit 1	100	3500	1100
Unit 2	100	3500	1100
Unit 3	100	3500	1100
Unit 4	100	3500	1100
Unit 5	100	3500	1100
Unit 6	100	3500	1100

4. ABATEMENT TECHNOLOGY (%)

Associated Unit/Stack	Technology Type	Efficiency Oct-2024	Technology Type	SO ₃ Utilization Oct-2024
Unit 1	Electrostatic Precipitator (ESP)	99.87%	SO ₃	99.9%
Unit 2	Electrostatic Precipitator (ESP)	99.72%	SO ₃	95.7%
Unit 3	Electrostatic Precipitator (ESP)	Unit Off-line	SO ₃	Off-line
Unit 4	Electrostatic Precipitator (ESP)	99.67%	SO ₃	98.9%
Unit 5	Electrostatic Precipitator (ESP)	99.64%	SO ₃	93.8%
Unit 6	Electrostatic Precipitator (ESP)	99.86%	SO ₃	99.6%

Note: ESP plant does not have bypass mode operation, hence plant 100% Utilised.

5. MONITOR RELIABILITY (%)

Associated Unit/Stack	PM	SO ₂	NO
Unit 1	99.7	99.8	100.0
Unit 2	94.3	99.6	99.7
Unit 3	Off	Off	Off
Unit 4	98.8	100.0	100.0
Unit 5	96.5	100.0	100.0
Unit 6	98.2	99.7	99.7

Note: NO_x emissions is measured as NO in PPM. Final NO_x value is expressed as total NO₂

6. EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for the month of October 2024

Associated Unit/Stack	PM (tons)	SO ₂ (tons)	NO _x (tons)
Unit 1	100.6	2 512	1 331
Unit 2	207.4	3 028	1 156
Unit 3	Off	Off	Off
Unit 4	194.6	3 326	1 505
Unit 5	291.0	3809	1578
Unit 6	44.8	1 310	654
SUM	838.4	13 985	6 225

Table 6.2: Operating days in compliance to PM AEL Limit - October 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contraven- tion	Total Exceedance	Average PM (mg/Nm³)
Unit 1	21	3	0	0	3	69.1
Unit 2	16	13	0	0	13	150.5
Unit 3	Off	Off	Off	Off	Off	Off
Unit 4	22	9	0	0	9	105.1
Unit 5	17	14	0	0	14	125.0
Unit 6	9	2	0	0	2	71.5
SUM	85	41	0	0	41	

Table 6.3: Operating days in compliance to SO₂ AEL Limit - October 2024

Associated Unit/Stack	Normal	Grace	Section 30	Contraven- tion	Total Exceedance	Average SO ₂ (mg/Nm³)
Unit 1	27	0	0	0	0	1 562.2
Unit 2	30	0	0	0	0	1 858.6
Unit 3	Off	Off	Off	Off	Off	Off
Unit 4	31	0	0	0	0	1 684.5
Unit 5	31	0	0	0	0	1 648.5
Unit 6	12	0	0	0	0	1 768.1
SUM	131	0	0	0	0	

Table 6.4: Operating days in compliance to NOx AEL Limit - October 2024

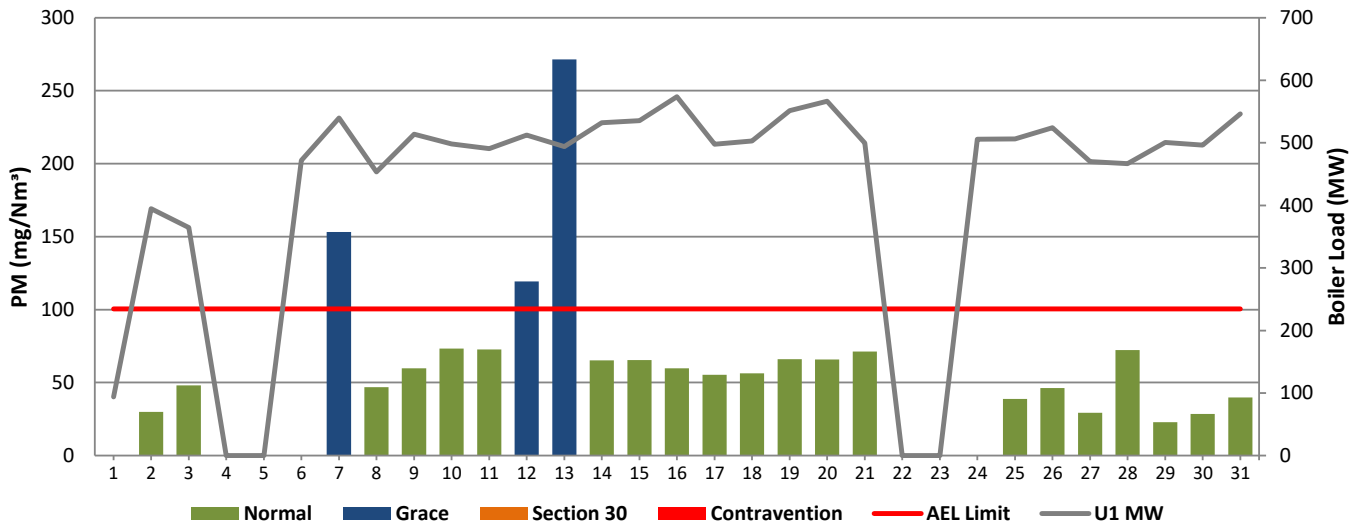
Associated Unit/Stack	Normal	Grace	Section 30	Contravention	Total Exceedance	Average NOx (mg/Nm³)
Unit 1	27	0	0	0	0	802.3
Unit 2	30	0	0	0	0	702.5
Unit 3	Off	Off	Off	Off	Off	Off
Unit 4	31	0	0	0	0	762.7
Unit 5	31	0	0	0	0	680.8
Unit 6	12	0	0	0	0	875.6
SUM	131	0	0	0	0	

Note: NOx emissions is measured as NO in PPM. Final NOx value is expressed as total NO₂

Table 6.5: Legend Description

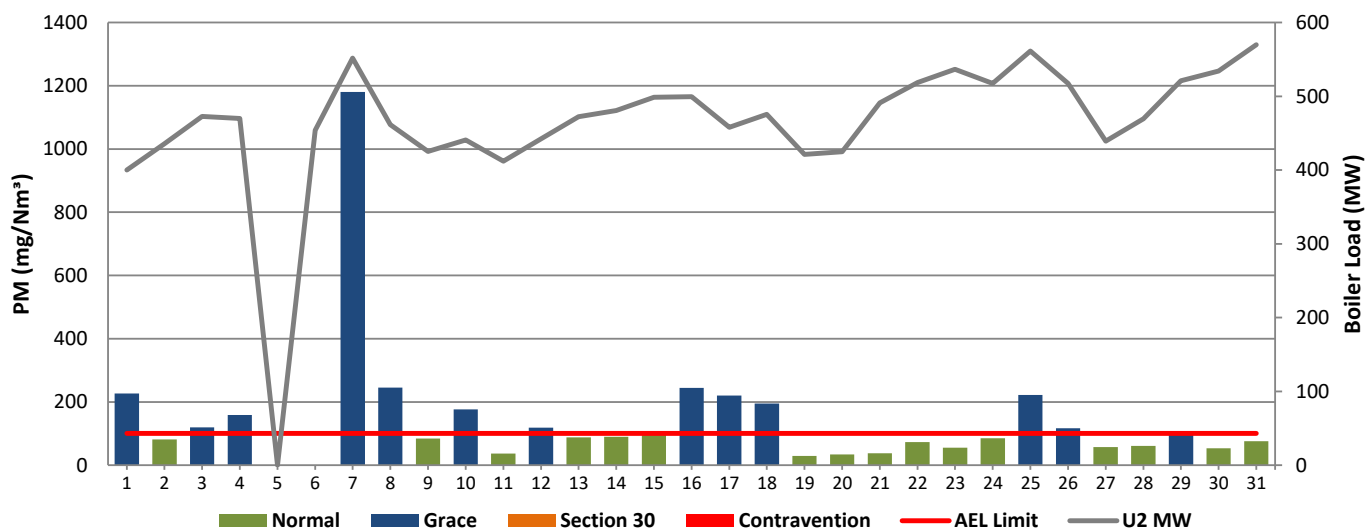
Condition	Colour	Description
Normal	GREEN	Emissions below Emission Limit Value (ELV)
Grace	BLUE	Emissions above the ELV during grace period
Section 30	ORANGE	Emissions above ELV during a NEMA S30 incident
Contravention	RED	Emissions above ELV but outside grace or S30 incident conditions

Figure 1: Lethabo Unit 1 PM Emissions - October 2024



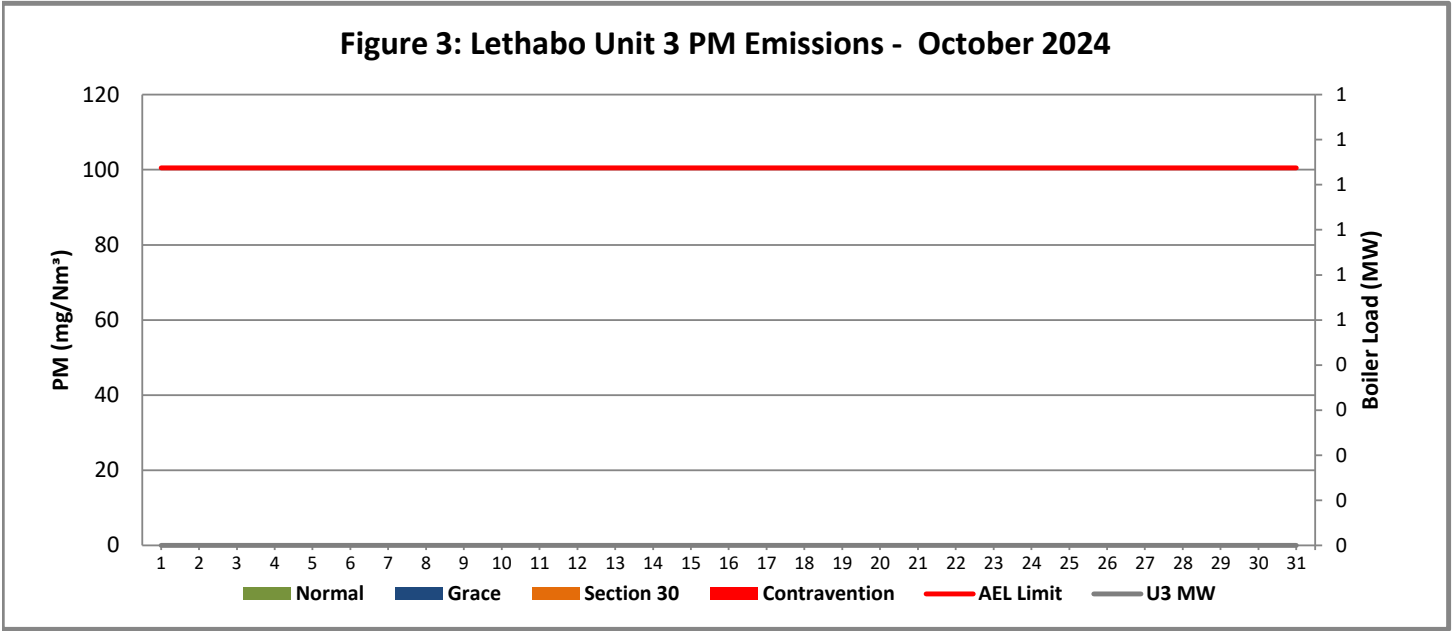
Reasons:	
Date	Description:
07-Oct	Unit 1 synchronized on 2024/10/06 @ 04:36 and therefore needs to be below the limit by 2024/10/09 @ 04:36 and remain below the limit until at least 2024/10/10 @ 23:59 Manual rapping. ESP poor performance.
12-Oct	Poor ESP casing performance
13-Oct	LHO casing outage. Manual rapping done.

Figure 2: Lethabo Unit 2 PM Emissions - October 2024



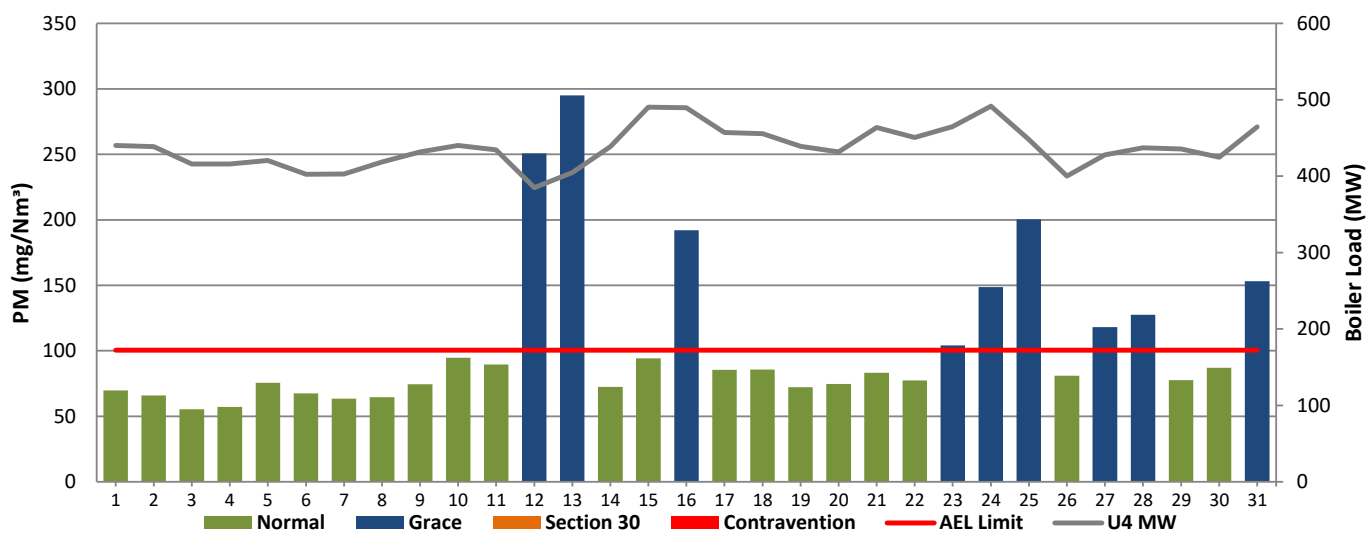
Reasons:	
Date	Description:
01-Oct	Manual rapping carried out. High hopper levels and poor ESP casing performance.
03-Oct	Poor ESP casing performance.
04-Oct	Unit shutdown. RHI poor performance.
07-Oct	Unit 2 synchronized on 2024/10/06 @ 11:41 and therefore needs to be below the limit by 2024/10/09 @ 11:41 and remain below the limit until at least 2024/10/10 @ 23:59 Leaking sulphur lance. RHI ESP casing poor performance. Incorrect monitor reading.
08-Oct	Leaking sulphur lance and poor ESP casing performance on RHI . Manual rapping.
10-Oct	Manual rapping.
12-Oct	RHI casing poor performance and taken out for repairs.
16-Oct	SO3 plant tripped + Poor ESP casing performance.
17-Oct	RHI casing washing.
18-Oct	RHI Casing washing SO3 Plant lance leakage
25-Oct	Sulphur plant issues. ESP casing poor performance.
26-Oct	Sulphur plant tripped. ESP poor performance
29-Oct	Manual rapping done.

Figure 3: Lethabo Unit 3 PM Emissions - October 2024



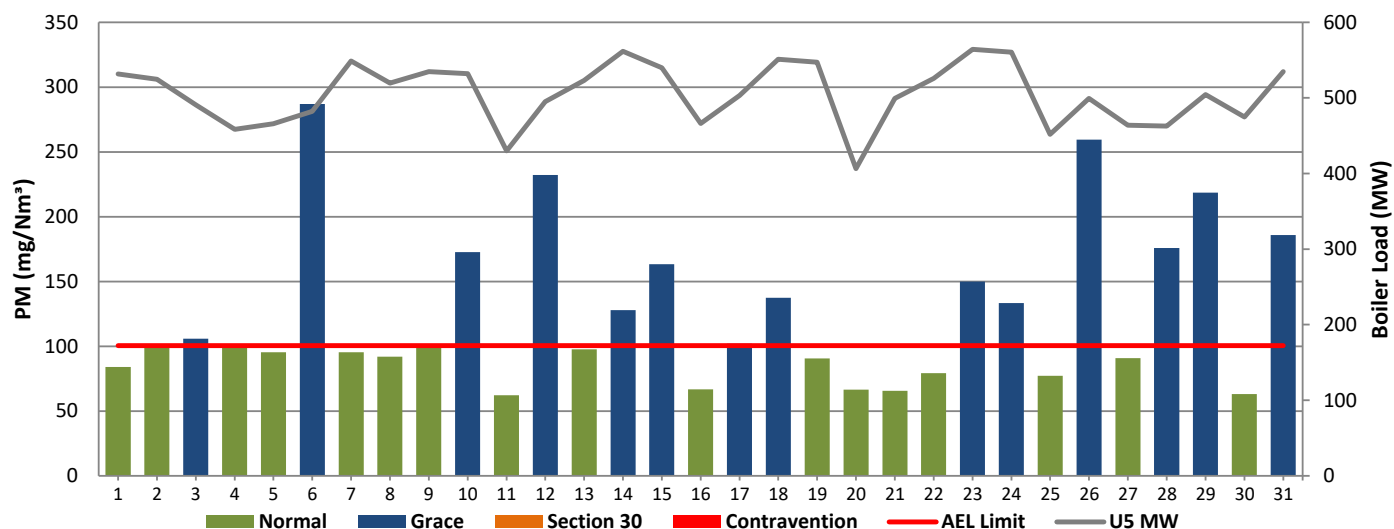
Reasons:	
Date	Description:

Figure 4: Lethabo Unit 4 PM Emissions - October 2024



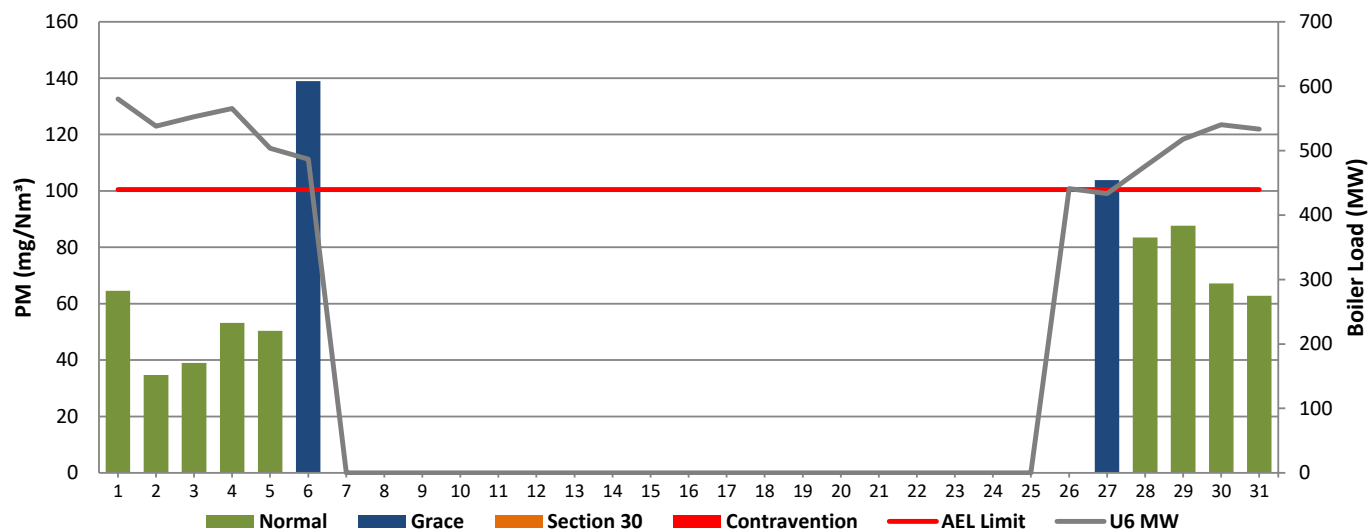
Reasons:	
Date	Description:
16-Oct	LHO ESP casing on PTW (Internal repairs).
23-Oct	ESP casing defects. A Bucket elevator repairs.
24-Oct	ESP casing defects.
25-Oct	ESP casing defects. A Bucket elevator repairs
27-Oct	ESP casing defects.
28-Oct	ESP casing defects.
31-Oct	Manual rapping done (Routine).

Figure 5: Lethabo Unit 5 PM Emissions - October 2024



Reasons:	
Date	Description:
03-Oct	Poor ESP (RHI/LHI) casing performance.
06-Oct	LHI casing outage
10-Oct	Poor ESP casing performance. Manual rapping.
12-Oct	LHI ESP casing repairs. Manual rapping carried out on LHI F5 - F7.
14-Oct	High hopper levels. Poor ESP casing performance.
15-Oct	Manual rapping done.
17-Oct	Poor ESP casing performance.
18-Oct	Poor ESP casing performance. Manual rapping done.
23-Oct	Poor ESP casing performance. Manual rapping carried out.
24-Oct	Poor ESP casing performance.
26-Oct	RHI casing outage.
28-Oct	SO3 plant off due to air blower silencer damaged. Poor ESP casing performance.
29-Oct	SO3 plant off due to air blower silencer damaged. Poor ESP casing performance. Clean rapping brought forward.
31-Oct	Manual rapping done. Poor ESP casings performance.

Figure 6: Lethabo Unit 6 PM Emissions - October 2024



Reasons:	
Date	Description:
06-Oct	Unit 6 shut down for klinker removal.
27-Oct	The unit synchronized on 2024/10/26 @ 18:03, therefore the unit emissions need to be below the limit by 2024/10/29 @ 18:03 and remain below until 2024/10/30 @ 23:59

Figure 7: Lethabo Unit 1 SO₂ Emissions - October 2024

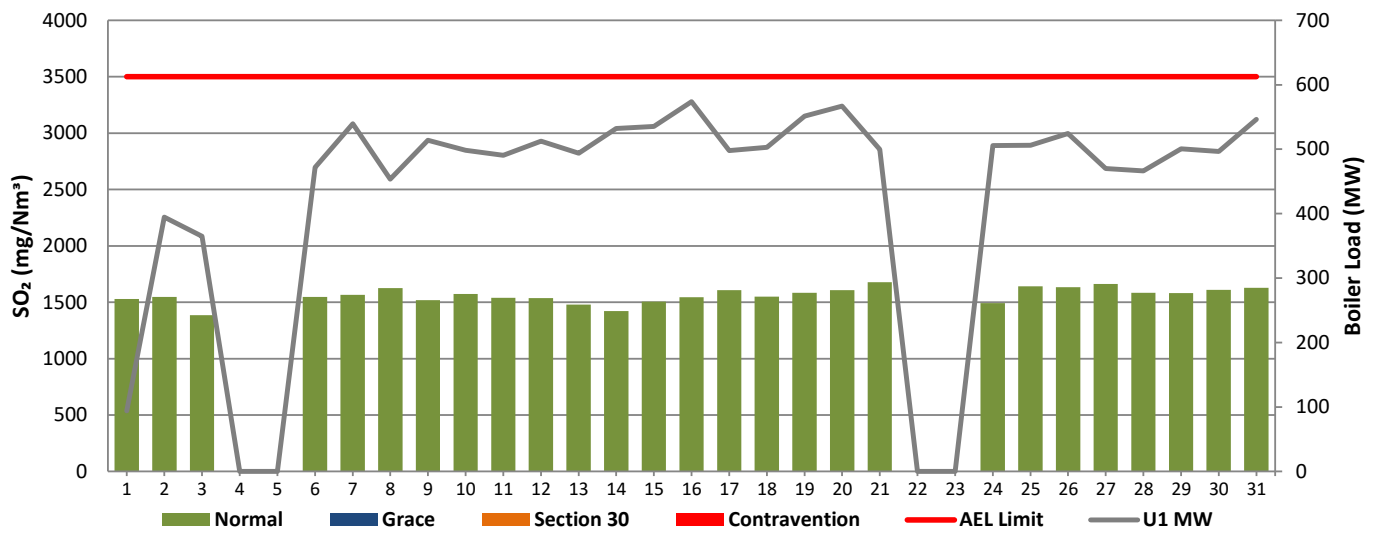


Figure 8: Lethabo Unit 2 SO₂ Emissions - October 2024

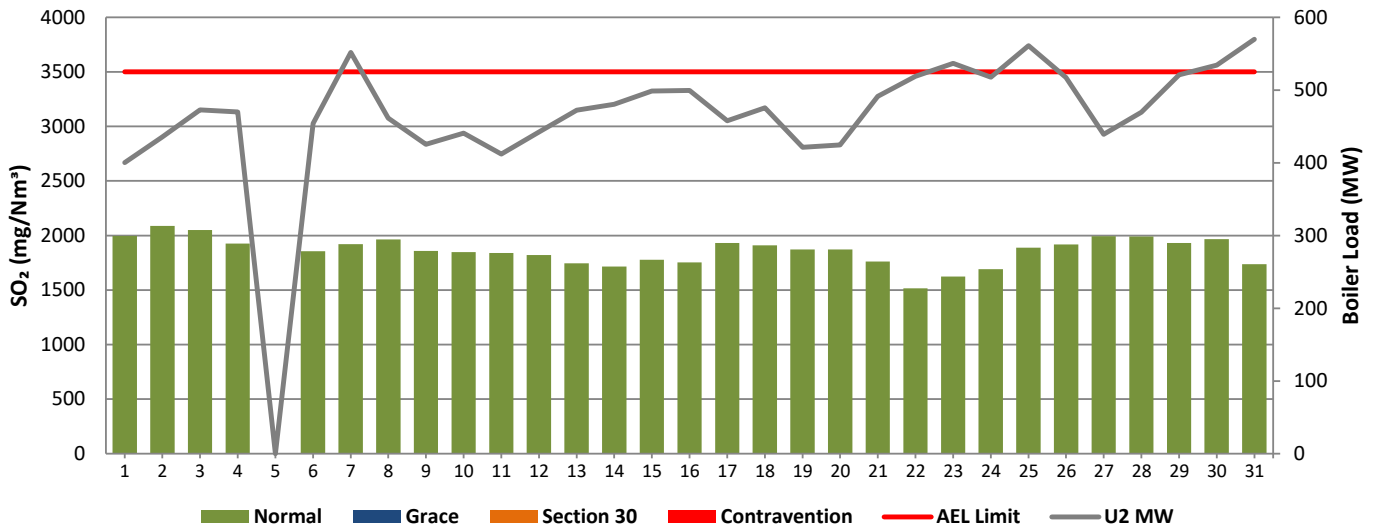


Figure 9: Lethabo Unit 3 SO₂ Emissions - October 2024

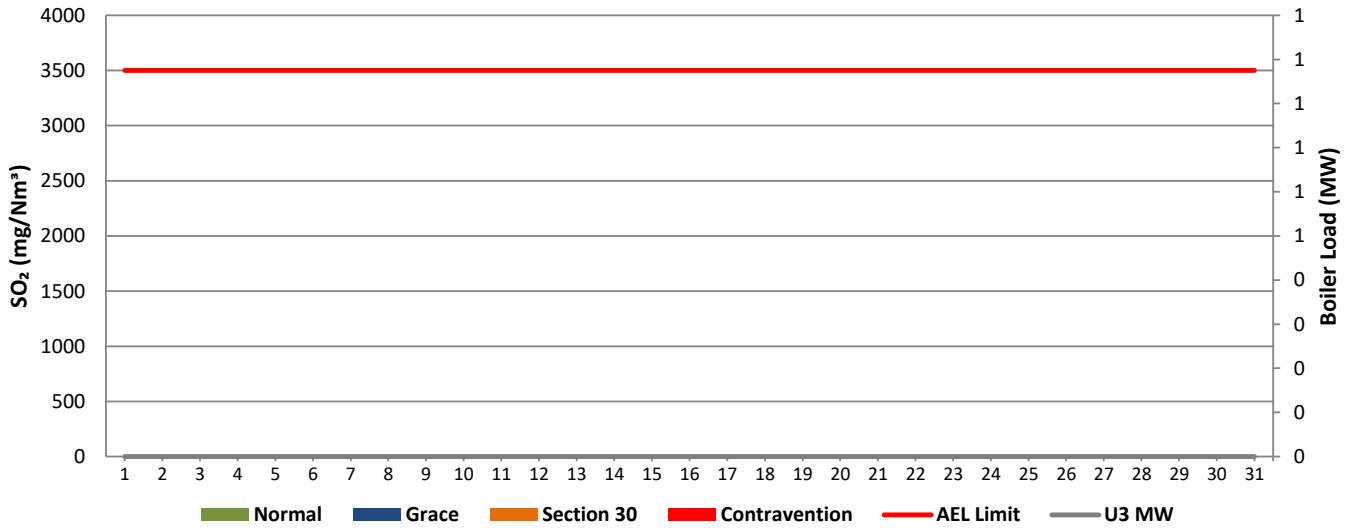


Figure 10: Lethabo Unit 4 SO₂ Emissions - October 2024

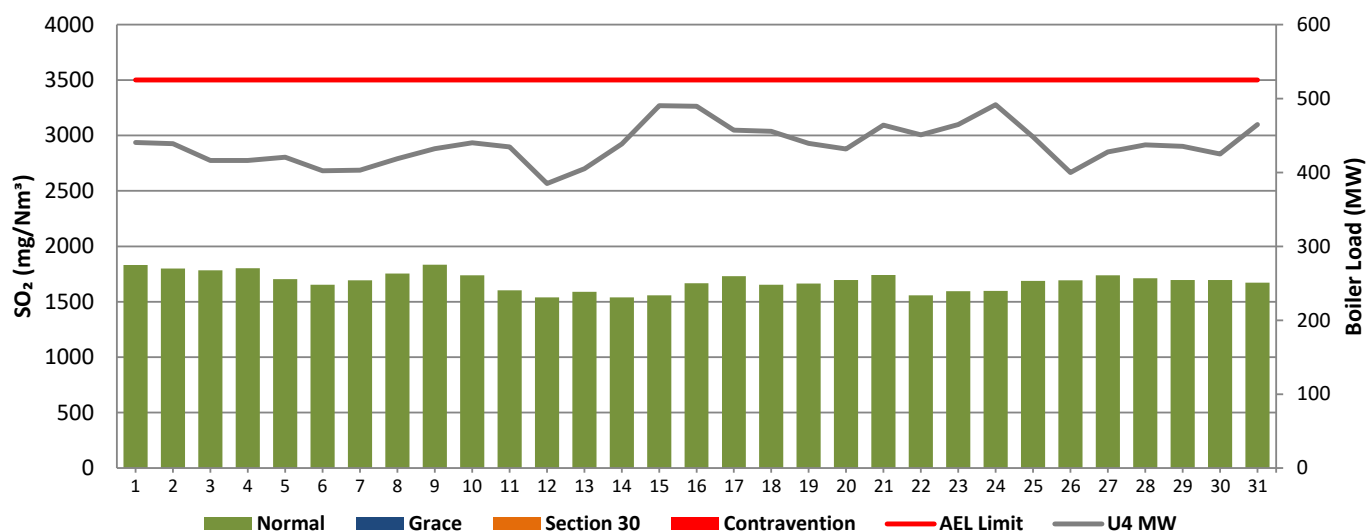


Figure 11: Lethabo Unit 5 SO₂ Emissions - October 2024

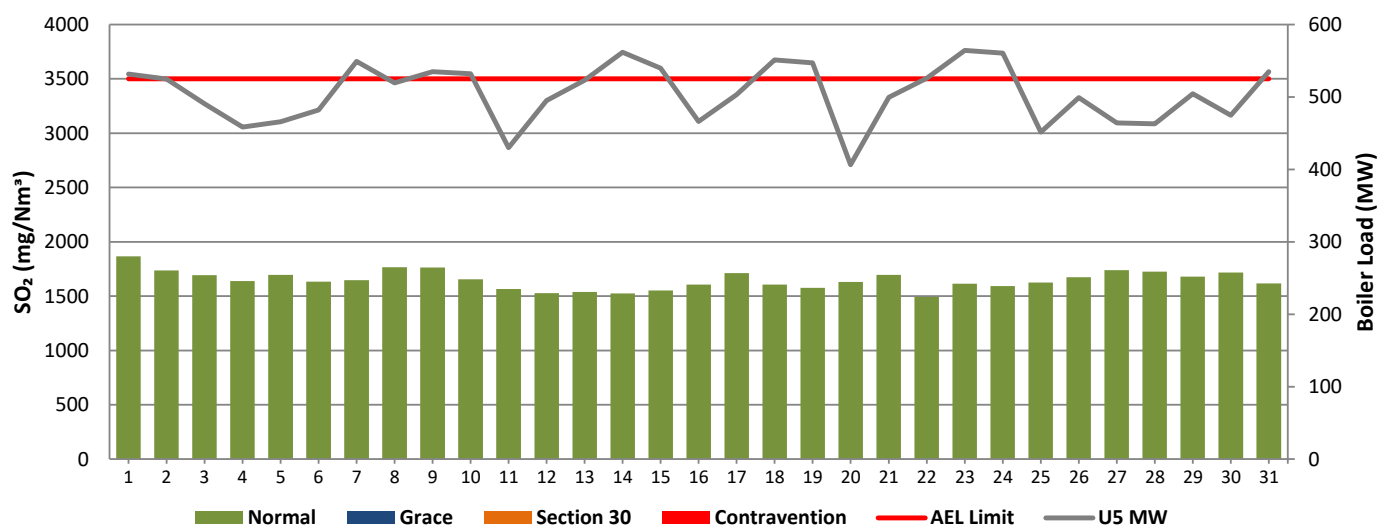


Figure 12: Lethabo Unit 6 SO₂ Emissions - October 2024

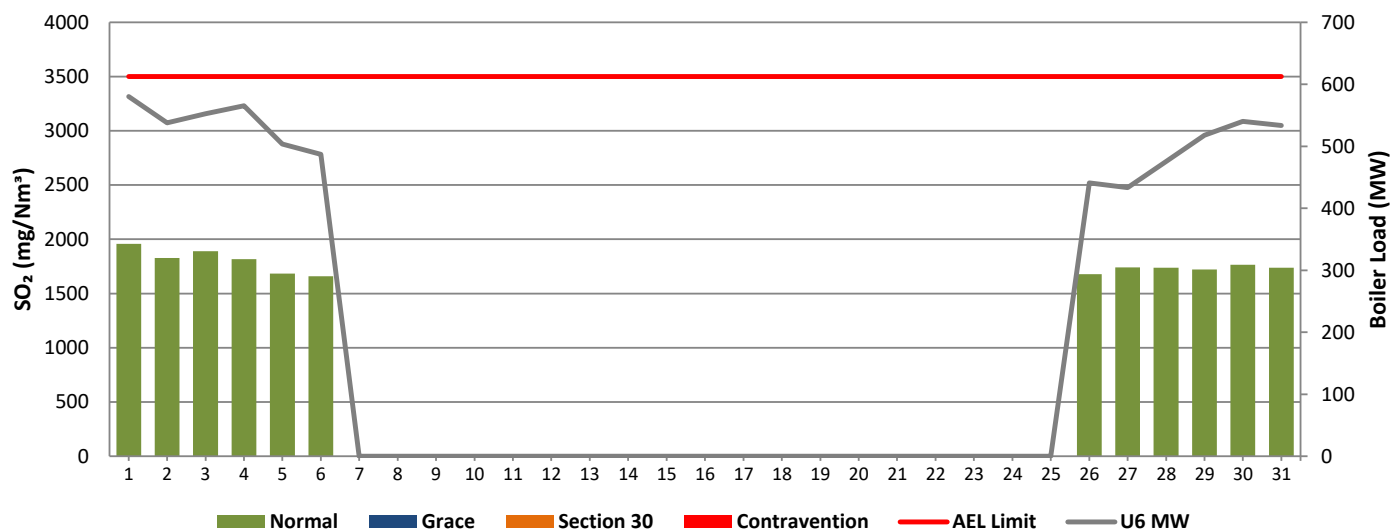


Figure 13: Lethabo Unit 1 NO_x Emissions - October 2024

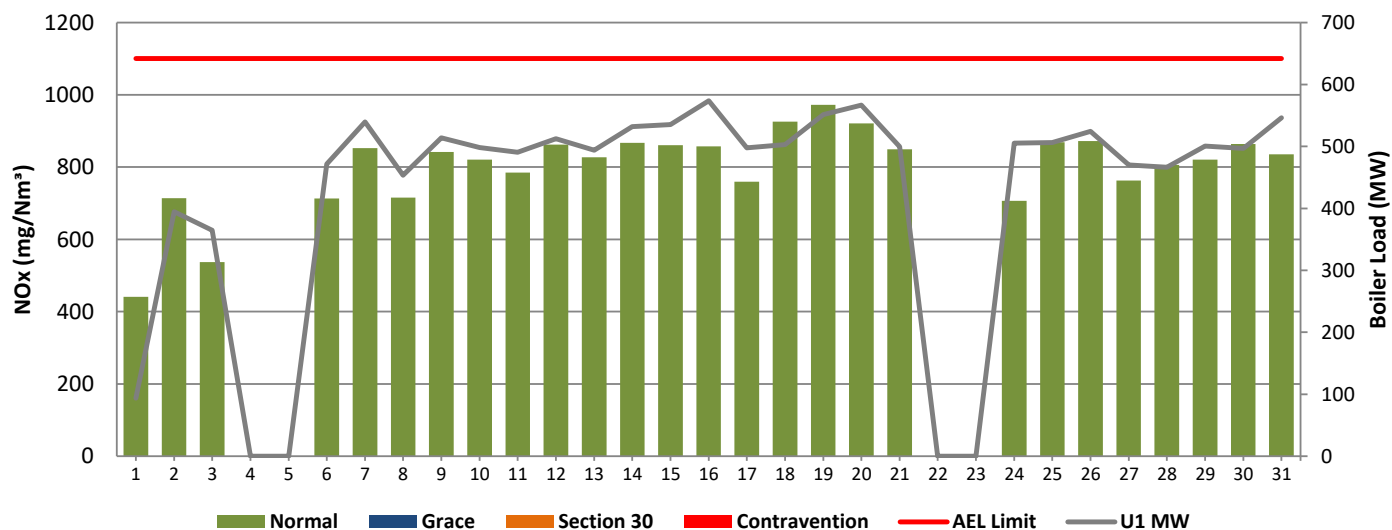


Figure 14: Lethabo Unit 2 NOx Emissions - October 2024

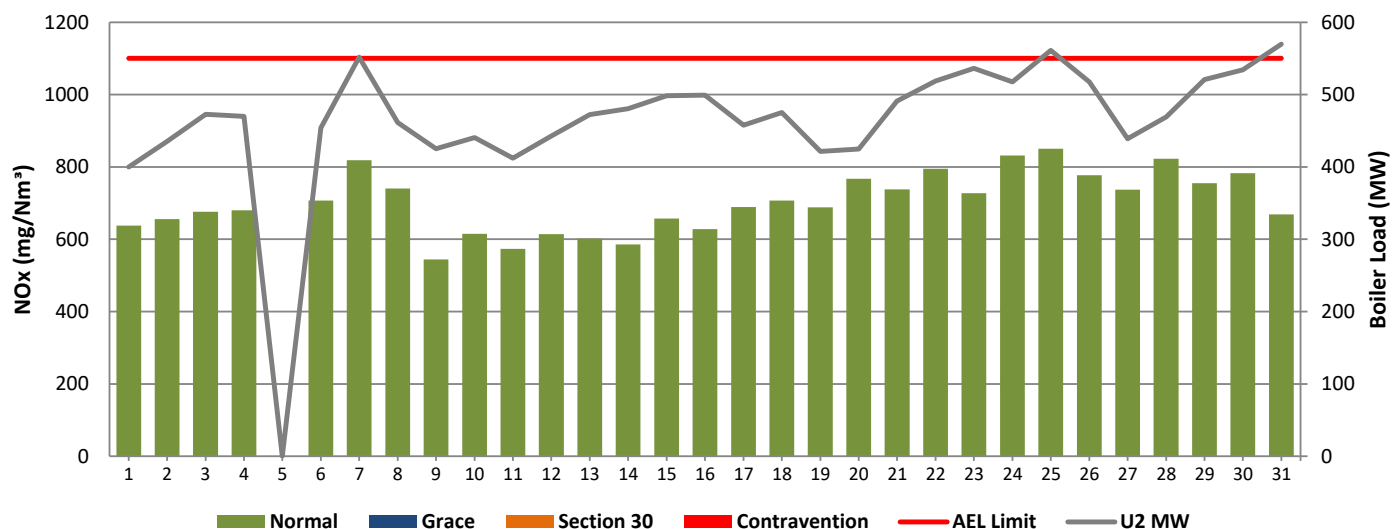


Figure 15: Lethabo Unit 3 NOx Emissions - October 2024

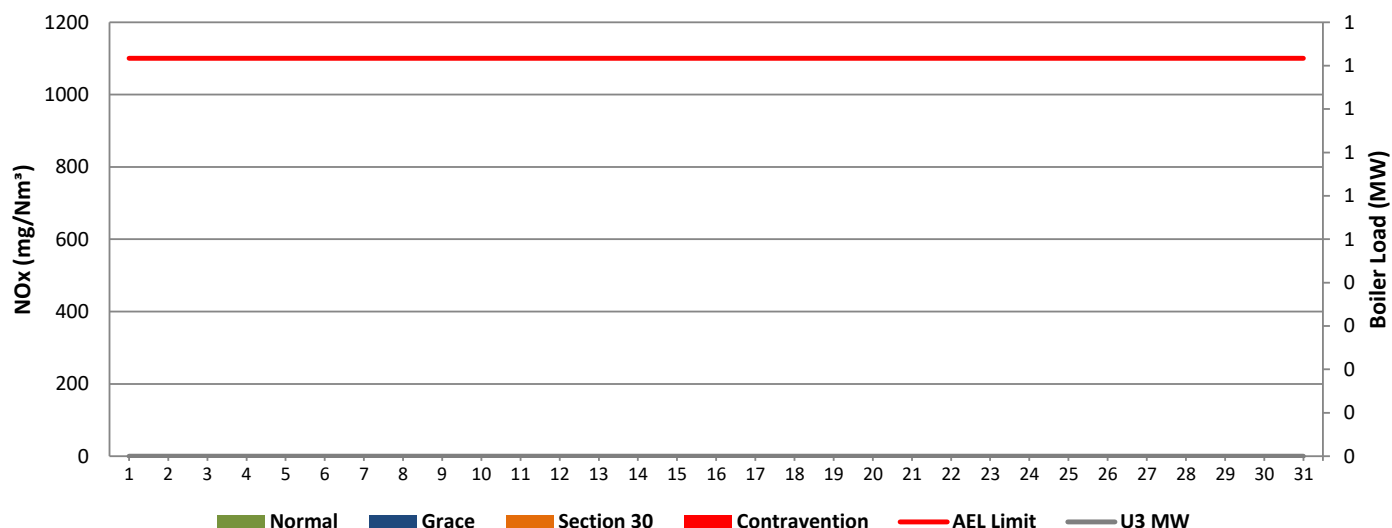


Figure 16: Lethabo Unit 4 NOx Emissions - October 2024

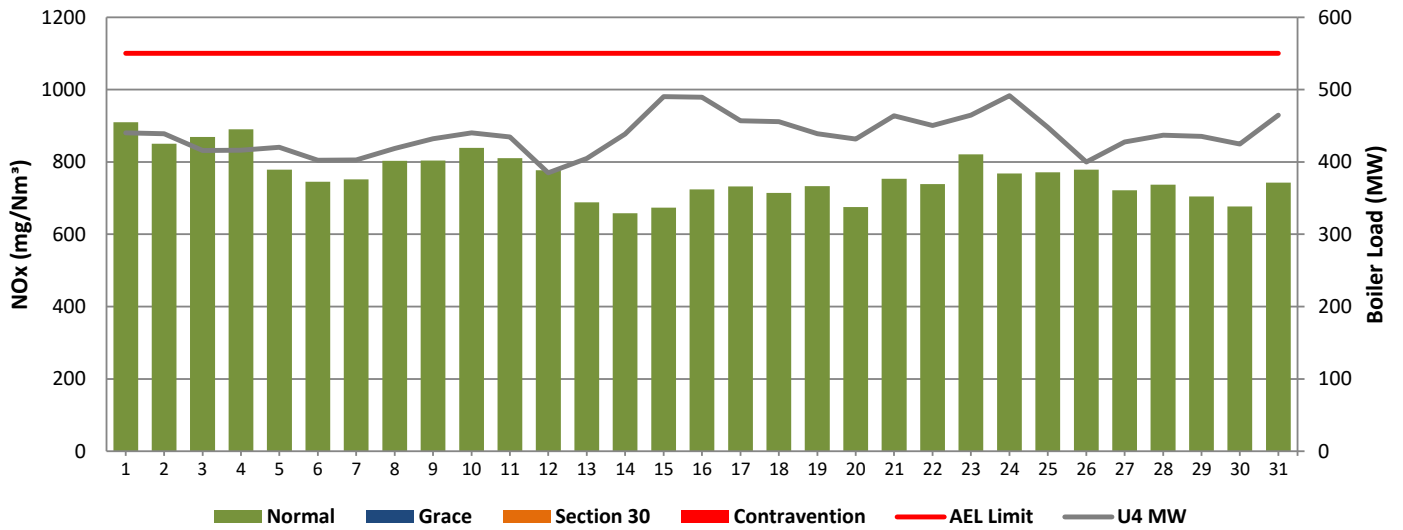


Figure 17: Lethabo Unit 5 NOx Emissions - October 2024

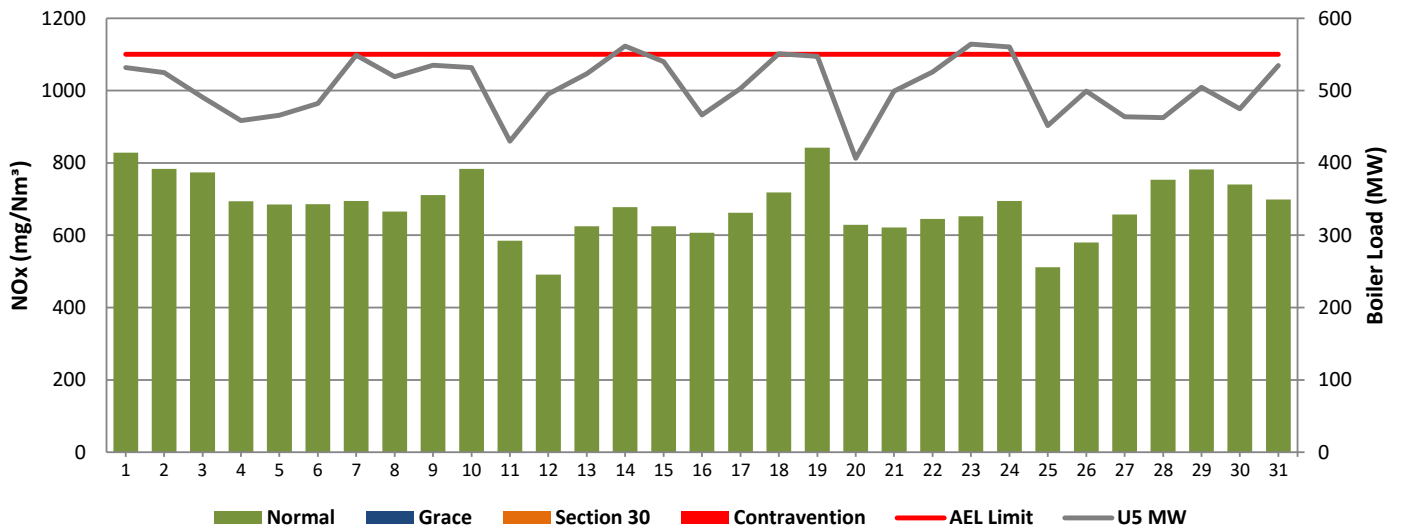
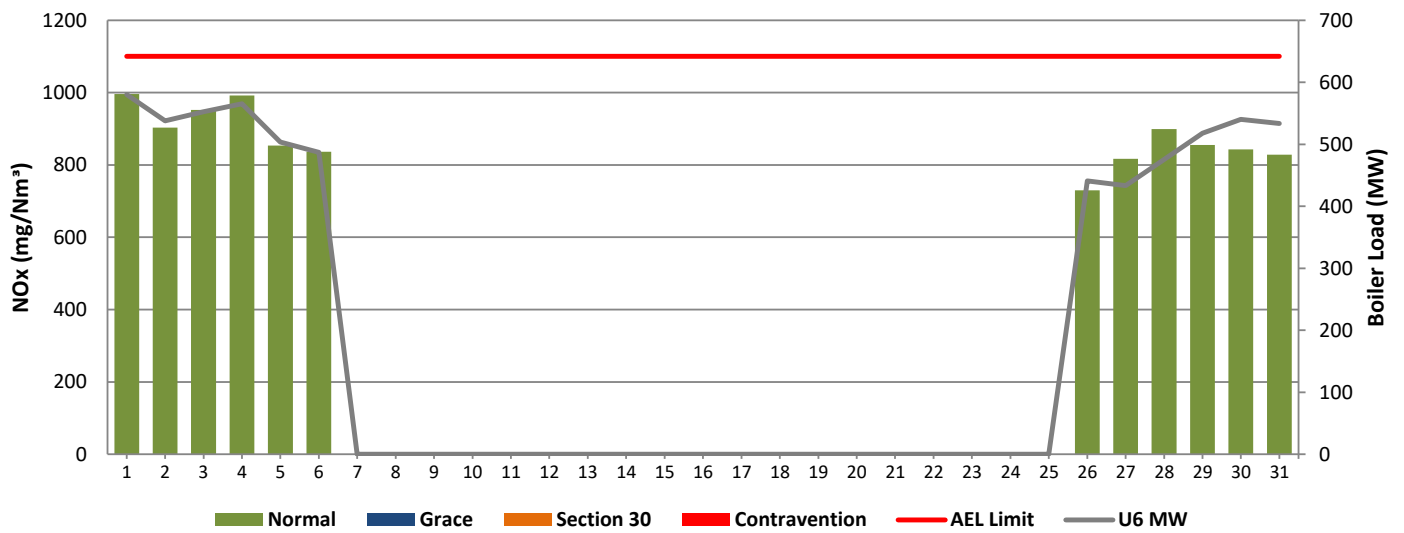


Figure 18: Lethabo Unit 6 NOx Emissions - October 2024



7 SHUT DOWN AND LIGHT UP INFORMATION

Table 7.1: PM Start-up information for the month of October 2024

Unit No.1	Boiler tube leak		Boiler tube leak		Boiler tube leak			
Breaker Open (BO)			1:46 am	2024/10/03	9:15 am	2024/10/21		
Draught Group (DG) Shut Down (SD)			5:26 pm	2024/10/03	9:45 pm	2024/10/21		
BO to DG SD (duration)		DD:HH:MM	00:15:40	DD:HH:MM	00:12:30	DD:HH:MM		
Fires in time	9:37 pm	2024/10/01	1:28 am	2024/10/06	2:45 am	2024/10/24		
Synch. to Grid (or BC)	11:50 pm	2024/10/01	4:36 am	2024/10/06	3:40 am	2024/10/24		
Fires in to BC (duration)	00:02:13	DD:HH:MM	00:03:08	DD:HH:MM	00:00:55	DD:HH:MM		
Emissions below limit from BC (end date)	12:00 am	2024/10/04	12:00 am	2024/10/08	4:00 am	2024/10/26		
Emissions below limit from BC (duration)	02:00:10	DD:HH:MM	01:19:24	DD:HH:MM	02:00:20	DD:HH:MM		

Unit No.2	Unit tripped low drum		Spray water valve repairs		1986336 slip			
Breaker Open (BO)	7:59 am	2024/10/01	10:08 pm	2024/10/04	10:08 am	2024/10/06		
Draught Group (DG) Shut Down (SD)	DG did not trip or SD	DG did not trip or SD	DG did not trip or SD	DG did not trip or SD	DG did not trip or SD	DG did not trip or SD		
BO to DG SD (duration)	n/a	DD:HH:MM	n/a	DD:HH:MM	n/a	DD:HH:MM		
Fires in time	5:02 pm	2024/10/01			11:05 am	2024/10/07		
Synch. to Grid (or BC)	6:26 pm	2024/10/01			11:42 am	2024/10/06		
Fires in to BC (duration)	00:01:24	DD:HH:MM		DD:HH:MM	#####	DD:HH:MM		
Emissions below limit from BC (end date)	5:00 am	2024/10/03			12:00 am	2024/10/09		
Emissions below limit from BC (duration)	01:10:34	DD:HH:MM		DD:HH:MM	02:12:18	DD:HH:MM		

Unit No.3	Outage							
Breaker Open (BO)								
Draught Group (DG) Shut Down (SD)								
BO to DG SD (duration)		DD:HH:MM						
Fires in time								
Synch. to Grid (or BC)								
Fires in to BC (duration)		DD:HH:MM						
Emissions below limit from BC (end date)								
Emissions below limit from BC (duration)		DD:HH:MM						

Unit No.4	Unit trip on Delta T's		Unit 4 tripped on black furnace					
Breaker Open (BO)	7:54 pm	2024/10/12	6:55 am	2024/10/13				
Draught Group (DG) Shut Down (SD)	DG did not trip or SD	DG did not trip or SD	DG did not trip or SD	DG did not trip or SD				
BO to DG SD (duration)	n/a	DD:HH:MM	n/a	DD:HH:MM				
Fires in time	7:54 pm	2024/10/12	4:28 pm	2024/10/13				
Synch. to Grid (or BC)	11:23 pm	2024/10/12	5:22 pm	2024/10/13				
Fires in to BC (duration)	00:03:29	DD:HH:MM	00:00:54	DD:HH:MM				
Emissions below limit from BC (end date)	6:00 pm	2024/10/15	6:00 pm	2024/10/15				
Emissions below limit from BC (duration)	02:18:37	DD:HH:MM	02:00:38	DD:HH:MM				

Unit No.5								
Breaker Open (BO)								
Draught Group (DG) Shut Down (SD)								
BO to DG SD (duration)								
Fires in time								
Synch. to Grid (or BC)								
Fires in to BC (duration)								
Emissions below limit from BC (end date)								
Emissions below limit from BC (duration)								

Unit No.6	MSSV repairs.		SSC clinker removal					
Breaker Open (BO)	4:38 pm	2024/10/06	4:38 pm	2024/10/09				
Draught Group (DG) Shut Down (SD)	12:30 pm	2024/10/07	DG did not trip or SD	DG did not trip or SD				
BO to DG SD (duration)	00:19:52	DD:HH:MM	n/a	DD:HH:MM				
Fires in time			6:01 pm	2024/10/26				
Synch. to Grid (or BC)			6:02 pm	2024/10/26				
Fires in to BC (duration)		DD:HH:MM	00:00:01	DD:HH:MM				
Emissions below limit from BC (end date)			12:00 pm	2024/10/29				
Emissions below limit from BC (duration)		DD:HH:MM	02:17:58	DD:HH:MM				

7.2: Point Source emissions released during start-up (fires-in) and Shut-down (SD) for the month of October 2024 in mg/Nm³

8. MAINTENANCE

Unit 1				
Beginning of	2024/10/12 23:47			
Reason for Maintenance	AM: LHO precip casing			
End (Time):	2024/10/13 23:46			
Duration	23:59:00			

Unit 2				
Beginning of				
Reason for Maintenance				
End (Time):				
Duration				

Unit 3				
Beginning of				
Reason for Maintenance				
End (Time):				
Duration				

Unit 4				
Beginning of				
Reason for Maintenance				
End (Time):				
Duration				

Unit 5				
Beginning of	2024/10/06 00:00	2024/10/12 00:00	2024/10/26 02:16	
Reason for Maintenance	LHI precip casing repairs	LH Inner precip casing	RHI Precip Casing repairs	
End (Time):	2024/10/06 23:59	2024/10/13 00:00	2024/10/26 23:30	
Duration	23:59:00	24:00:00	21:14:00	

Unit 6				
Beginning of				
Reason for Maintenance				
End (Time):				
Duration				

9. GENERAL

Unit 2 Monitor Reliability

07/10/2024: PM monitor Reliability low due to monitor faulty (Belt loose).

PM Exceedances		
	Unit 1 synchronized on 2024/10/06 @ 04:36 and therefore needs to be below the limit by 2024/10/09 @ 04:36 and remain below the limit until at least 2024/10/10 @ 23:59 Manual rapping. ESP poor performance.	07-Oct
U1.	Poor ESP casing performance	12-Oct
	LHO casing outage.	
U1.	Manual rapping done.	13-Oct
	Manual rapping carried out. High hopper levels.	
U2.	Poor ESP casing performance.	01-Oct
U2.	Poor ESP casing performance.	03-Oct
	Unit shutdown.	
U2.	RHI poor performance.	04-Oct
	Unit 2 synchronized on 2024/10/06 @ 11:41 and therefore needs to be below the limit by 2024/10/09 @ 11:41 and remain below the limit until at least 2024/10/10 @ 23:59 Leaking sulphur lance. RHI ESP casing poor performance. Incorrect monitor reading.	07-Oct
	Leaking sulphur lance. RHI ESP casing poor performance.	
U2.	Manual rapping.	08-Oct
U2.	Manual rapping.	10-Oct
U2.	RHI casing poor performance and taken out for repairs.	12-Oct
	SO3 plant tripped.	
U2.	Poor ESP casing performance.	16-Oct
U2.	RHI casing washing.	17-Oct
	RHI Casing washing	
U2.	SO3 Plant lance leakage	18-Oct
	Sulphur plant issues.	
U2.	ESP casing poor performance.	25-Oct
	Sulphur plant tripped.	
U2.	ESP poor performance	26-Oct
U2.	Manual rapping done.	29-Oct
U4.	LHO ESP casing on PTW (Internal repairs).	16-Oct
	ESP casing defects.	
U4.	A Bucket elevator repairs.	23-Oct
	ESP casing defects.	
	A Bucket elevator repairs	
U4.	No sulphur flow due to steam temp low.	24-Oct
	ESP casing defects.	
	A Bucket elevator repairs	
U4.	Manual rapping done.	25-Oct
	ESP casing defects.	
	A Bucket elevator repairs.	
U4.	High hopper levels.	27-Oct
	ESP casing defects.	
U4.	Manual rapping done.	28-Oct
U4.	Manual rapping done (Routine).	31-Oct
U5.	Poor ESP (RHI/LHI) casing performance.	03-Oct

PM Exceedances		
U5.	LHI casing outage	06-Oct
U5.	Poor ESP casing performance. Manual rapping.	10-Oct
U5.	LHI ESP casing repairs. Manual rapping carried out on LHI F5 - F7.	12-Oct
U5.	High hopper levels. Poor ESP casing performance.	14-Oct
U5.	Manual rapping done.	15-Oct
U5.	Poor ESP casing performance.	17-Oct
U5.	Poor ESP casing performance. Manual rapping done.	18-Oct
U5.	Poor ESP casing performance. Manual rapping carried out.	23-Oct
U5.	Poor ESP casing performance.	24-Oct
U5.	RHI casing outage.	26-Oct
U5.	SO3 plant off due to air blower silencer damaged. Poor ESP casing performance.	28-Oct
U5.	SO3 plant off due to air blower silencer damaged. Poor ESP casing performance. Clean rapping brought forward.	29-Oct
U5.	Manual rapping done. Poor ESP casings performance.	31-Oct
U6.	Unit 6 shut down for klinker removal.	06-Oct
U6.	The unit synchronized on 2024/10/26 @ 18:03, therefore the unit emissions need to be below the limit by 2024/10/29 @ 18:03 and remain below until 2024/10/30 @ 23:59 Sulphur flow lost due to low steam temps.	27-Oct

ADDENDUM TO MONTHLY EMISSIONS REPORT

10. S30 INCIDENT OR LEGAL CONTRAVENTION REGISTER

To be completed in the case of a S30 incident or a legal contravention:

Unit no	Incident Start Date	Incident End Date	Incident Cause	Remedial action	S30 initial notification sent	Date S30 investigation report sent	Date DEA Acknowledgment	Date DEA Acceptable	Comments / Reference No.

11. PARTICULATE EMISSIONS

EMISSION RATE (ACTUAL EMISSION/MWh GENERATED - kg/MWh)

MONTH	UNIT 1	UNIT 2	UNIT 3	UNIT 4	UNIT 5	UNIT 6	STATION
Nov-23	0.83	1.31	0.94	0.67	0.59	0.75	0.87
Dec-23	0.53	0.87	0.88	1.25	0.93	0.71	0.85
Jan-24	0.53	0.98	0.85	0.87	0.75	0.78	0.79
Feb-24	0.55	0.81	0.89	0.63	0.48	OFF	0.68
Mar-24	0.86	0.58	0.97	0.69	0.84	OFF	0.79
Apr-24	0.27	0.66	0.55	0.69	0.68	OFF	0.58
May-24	0.25	0.91	0.56	1.10	0.81	OFF	0.75
Jun-24	0.30	1.03	0.45	0.68	0.54	OFF	0.60
Jul-24	0.43	2.04	0.55	0.75	0.68	1.28	0.87
Aug-24	0.48	0.91	0.69	0.47	0.53	0.18	0.54
Sep-24	0.61	0.70	0.69	0.67	0.76	0.24	0.60
Oct-24	0.34	0.62	OFF	0.61	0.78	0.33	0.57

ADDENDUM TO MONTHLY EMISSIONS REPORT

12. DAILY EMISSIONS FIGURES

Final Dust Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	Limit
01-Oct	OFF	227	OFF	70	84	65	100
02-Oct	30	81	OFF	66	100	35	100
03-Oct	48	120	OFF	55	106	39	100
04-Oct	OFF	159	OFF	57	99	53	100
05-Oct	OFF	OFF	OFF	76	95	50	100
06-Oct	OFF	OFF	OFF	68	287	139	100
07-Oct	153	1181	OFF	63	95	OFF	100
08-Oct	47	245	OFF	64	92	OFF	100
09-Oct	60	84	OFF	74	100	OFF	100
10-Oct	73	176	OFF	95	173	OFF	100
11-Oct	73	37	OFF	89	62	OFF	100
12-Oct	119	118	OFF	251	232	OFF	100
13-Oct	271	88	OFF	295	98	OFF	100
14-Oct	65	90	OFF	72	128	OFF	100
15-Oct	66	95	OFF	94	163	OFF	100
16-Oct	60	244	OFF	192	67	OFF	100
17-Oct	55	220	OFF	86	102	OFF	100
18-Oct	56	195	OFF	86	138	OFF	100
19-Oct	66	29	OFF	72	91	OFF	100
20-Oct	66	34	OFF	75	67	OFF	100
21-Oct	71	38	OFF	83	66	OFF	100
22-Oct	OFF	73	OFF	77	79	OFF	100
23-Oct	OFF	55	OFF	104	150	OFF	100
24-Oct	OFF	85	OFF	149	133	OFF	100
25-Oct	39	222	OFF	200	77	OFF	100
26-Oct	46	117	OFF	81	259	OFF	100
27-Oct	29	57	OFF	118	91	104	100
28-Oct	72	61	OFF	128	176	83	100
29-Oct	23	103	OFF	78	219	88	100
30-Oct	28	54	OFF	87	63	67	100
31-Oct	40	76	OFF	153	186	63	100

ADDENDUM TO MONTHLY EMISSIONS REPORT

Final SOx Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	Limit
01-Oct	1530	1995	OFF	1832	1866	1958	3500
02-Oct	1546	2089	OFF	1799	1735	1829	3500
03-Oct	1386	2051	OFF	1782	1693	1889	3500
04-Oct	OFF	1927	OFF	1803	1638	1816	3500
05-Oct	OFF	OFF	OFF	1705	1697	1684	3500
06-Oct	1547	1855	OFF	1652	1634	1658	3500
07-Oct	1567	1921	OFF	1692	1647	OFF	3500
08-Oct	1625	1964	OFF	1755	1766	OFF	3500
09-Oct	1518	1858	OFF	1835	1764	OFF	3500
10-Oct	1574	1847	OFF	1739	1655	OFF	3500
11-Oct	1540	1839	OFF	1602	1566	OFF	3500
12-Oct	1536	1819	OFF	1540	1528	OFF	3500
13-Oct	1479	1745	OFF	1591	1538	OFF	3500
14-Oct	1421	1717	OFF	1538	1525	OFF	3500
15-Oct	1504	1779	OFF	1558	1552	OFF	3500
16-Oct	1545	1752	OFF	1666	1606	OFF	3500
17-Oct	1608	1930	OFF	1731	1711	OFF	3500
18-Oct	1551	1909	OFF	1652	1606	OFF	3500
19-Oct	1584	1873	OFF	1665	1576	OFF	3500
20-Oct	1608	1871	OFF	1696	1630	OFF	3500
21-Oct	1677	1760	OFF	1741	1695	OFF	3500
22-Oct	OFF	1514	OFF	1559	1492	OFF	3500
23-Oct	OFF	1622	OFF	1595	1615	OFF	3500
24-Oct	1492	1692	OFF	1598	1593	OFF	3500
25-Oct	1641	1888	OFF	1687	1624	OFF	3500
26-Oct	1633	1919	OFF	1694	1674	1679	3500
27-Oct	1663	1994	OFF	1738	1740	1742	3500
28-Oct	1585	1992	OFF	1711	1726	1738	3500
29-Oct	1582	1932	OFF	1695	1678	1723	3500
30-Oct	1611	1967	OFF	1695	1716	1764	3500
31-Oct	1629	1738	OFF	1673	1618	1739	3500

ADDENDUM TO MONTHLY EMISSIONS REPORT

Final NOx Concentration (mg/Nm³)

Date	U1	U2	U3	U4	U5	U6	Limit
01-Oct	441	638	OFF	910	829	996	1100
02-Oct	714	656	OFF	850	783	903	1100
03-Oct	537	676	OFF	869	774	953	1100
04-Oct	OFF	681	OFF	890	694	992	1100
05-Oct	OFF	OFF	OFF	779	685	853	1100
06-Oct	713	707	OFF	746	686	837	1100
07-Oct	852	818	OFF	752	695	OFF	1100
08-Oct	716	741	OFF	803	666	OFF	1100
09-Oct	842	545	OFF	804	711	OFF	1100
10-Oct	820	615	OFF	839	784	OFF	1100
11-Oct	785	574	OFF	811	585	OFF	1100
12-Oct	862	614	OFF	777	492	OFF	1100
13-Oct	827	602	OFF	688	625	OFF	1100
14-Oct	867	585	OFF	658	678	OFF	1100
15-Oct	861	657	OFF	674	625	OFF	1100
16-Oct	857	628	OFF	724	607	OFF	1100
17-Oct	760	689	OFF	732	662	OFF	1100
18-Oct	926	707	OFF	715	719	OFF	1100
19-Oct	972	688	OFF	733	842	OFF	1100
20-Oct	921	767	OFF	676	629	OFF	1100
21-Oct	850	738	OFF	754	621	OFF	1100
22-Oct	OFF	795	OFF	739	645	OFF	1100
23-Oct	OFF	728	OFF	821	652	OFF	1100
24-Oct	706	831	OFF	768	695	OFF	1100
25-Oct	869	851	OFF	771	512	OFF	1100
26-Oct	872	777	OFF	779	580	730	1100
27-Oct	763	738	OFF	722	657	817	1100
28-Oct	806	823	OFF	737	754	899	1100
29-Oct	821	755	OFF	705	782	856	1100
30-Oct	864	783	OFF	677	741	843	1100
31-Oct	836	669	OFF	743	699	829	1100

ADDENDUM TO MONTHLY EMISSIONS REPORT

13. AVAILABILITY

ESP utilisation

Availability												
Month	Unit 1	Days Affected	Unit 2	Days Affected	Unit 3	Days Affected	Unit 4	Days Affected	Unit 5	Days Affected	Unit 6	Days Affected
Nov-23	97.53%	2.96	97.57%	2.92	99.17%	1.00	100.00%	0.00	100.00%	0.00	99.71%	0.35
Dec-23	100.00%	0.0	97.95%	2.5	100.00%	0.0	98.62%	1.7	98.03%	2.4	97.91%	2.6
Jan-24	97.90%	2.6	98.73%	1.6	100.00%	0.0	100.00%	0.0	99.32%	0.8	100.00%	0.0
Feb-24	100.00%	0.0	99.34%	0.8	98.42%	1.8	99.89%	0.1	100.00%	0.0	Off-line	Off-line
Mar-24	100.00%	0.0	99.19%	1.0	100.00%	0.0	97.53%	3.1	99.19%	1.0	100.00%	0.00%
Apr-24	100.00%	0.0	100.00%	0.0	100.00%	0.0	99.89%	0.1	97.43%	3.1	100.00%	0.00%
May-24	100.00%	0.0	97.91%	2.6	100.00%	0.0	97.67%	2.9	99.38%	0.8	100.00%	0.00%
Jun-24	100.00%	0.00	99.17%	1.00	98.09%	2.29	98.32%	2.01	100.00%	0.00	100.00%	0.00
Jul-24	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.0	100.00%	0.00%
Aug-24	98.59%	1.8	100.00%	0.0	99.21%	1.0	100.00%	0.0	99.84%	0.2	100.00%	0.00%
Sep-24	98.55%	1.74	99.84%	0.19	100.00%	0.00	99.12%	1.06	99.16%	1.01	100.00%	0.00
Oct-24	99.19%	1.0	100.00%	0.0	100.00%	0.0	100.00%	0.0	97.67%	2.9	100.00%	0.00%

SO₃ plant utilisation

Availability												
Month	Unit 1	Days Affected	Unit 2	Days Affected	Unit 3	Days Affected	Unit 4	Days Affected	Unit 5	Days Affected	Unit 6	Days Affected
Nov-23	95.14%	1.5	94.17%	1.8	83.89%	4.8	86.14%	4.2	89.17%	3.3	94.62%	1.6
Dec-23	92.47%	2.3	97.67%	0.7	81.25%	5.8	84.48%	4.8	93.82%	1.9	85.62%	4.5
Jan-24	95.73%	1.3	90.43%	3.0	69.76%	9.4	91.80%	2.5	89.78%	3.2	95.24%	1.5
Feb-24	99.92%	0.0	87.56%	3.6	98.85%	0.3	95.65%	1.3	88.10%	3.5	Off-line	Off-line
Mar-24	99.33%	0.21	93.76%	1.94	84.86%	4.69	100.00%	0.00	100.00%	0.00	Off-line	Off-line
Apr-24	99.46%	0.2	93.92%	1.8	99.58%	0.1	100.00%	0.0	100.00%	0.0	Off-line	Off-line
May-24	99.45%	0.2	99.87%	0.0	96.37%	1.1	99.87%	0.0	100.00%	0.0	Off-line	Off-line
Jun-24	97.08%	0.88	69.03%	9.29	100.00%	0.00	99.34%	0.20	99.77%	0.07	Off-line	Off-line
Jul-24	98.30%	0.5	41.43%	18.2	99.73%	0.1	99.58%	0.1	98.39%	0.5	53.66%	14.37
Aug-24	99.46%	0.2	91.70%	2.6	100.00%	0.0	97.98%	0.6	99.59%	0.1	96.68%	1.03
Sep-24	100.00%	0.0	89.45%	3.2	99.33%	0.2	99.84%	0.0	99.58%	0.1	99.92%	2.45%
Oct-24	99.85%	0.0	95.65%	1.3	Off-line	Off-line	98.92%	0.3	93.82%	1.9	99.59%	12.62%

ADDENDUM TO MONTHLY EMISSIONS REPORT

Particulate Emission Monitors

Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Nov-23	92.92%	86.39%	94.86%	98.60%	97.64%	96.16%
Dec-23	98.12%	92.68%	95.74%	90.32%	95.03%	97.85%
Jan-24	98.28%	85.65%	94.35%	90.76%	92.88%	97.82%
Feb-24	96.67%	93.82%	93.39%	96.10%	98.81%	OFF
Mar-24	94.09%	97.49%	96.46%	97.18%	95.83%	OFF
Apr-24	99.68%	92.71%	97.22%	94.03%	98.06%	OFF
May-24	98.93%	93.01%	97.45%	91.88%	95.47%	OFF
Jun-24	98%	87%	97%	97%	99%	OFF
Jul-24	90.95%	73.05%	97.04%	95.37%	98.85%	61.98%
Aug-24	95.70%	91.44%	99.38%	99.60%	98.95%	99.58%
Sep-24	98.11%	94.42%	100.00%	98.42%	96.20%	99.64%
Oct-24	99.65%	94.32%	OFF	98.75%	96.51%	98.18%

Gaseous Emission Monitors

Availability												
Unit 1			Unit 2		Unit 3		Unit 4		Unit 5		Unit 6	
Month	SO _x	NO _x	SO _x	NO _x	SO _x	NO _x	SO _x	NO _x	SO _x	NO _x	SO _x	NO _x
Nov-23	100.00%	100.00%	99.72%	99.86%	99.86%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	99.73%
Dec-23	100.00%	100.00%	100.00%	100.00%	100.00%	98.95%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Jan-24	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	99.87%	100.00%	100.00%	100.00%
Feb-24	98.08%	98.08%	99.78%	98.95%	98.28%	98.28%	97.83%	97.83%	97.73%	97.73%	OFF	OFF
Mar-24	99.73%	99.73%	100.00%	100.00%	99.62%	99.43%	99.73%	99.60%	99.73%	99.87%	OFF	OFF
Apr-24	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	OFF	OFF
May-24	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	98.79%	98.79%	98.37%	98.37%	OFF	OFF
Jun-24	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	OFF	OFF
Jul-24	99.75%	99.89%	100.00%	100.00%	100.00%	100.00%	99.46%	99.73%	100.00%	100.00%	73.40%	70.78%
Aug-24	99.87%	100.00%	99.80%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Sep-24	100.00%	100.00%	100.00%	99.68%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Oct-24	99.85%	100.00%	99.58%	99.72%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.65%	99.65%

Oxygen Monitor Availability						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Nov-23	99.86%	99.72%	99.86%	100.00%	100.00%	99.58%
Dec-23	100.00%	99.83%	99.81%	99.72%	100.00%	99.46%
Jan-24	99.87%	99.86%	100.00%	100.00%	100.00%	98.10%
Feb-24	97.92%	99.78%	97.84%	97.67%	97.54%	OFF
Mar-24	99.73%	100.00%	99.24%	99.87%	99.87%	OFF
Apr-24	100.00%	100.00%	99.86%	100.00%	100.00%	OFF
May-24	99.97%	100.00%	99.98%	98.79%	98.31%	OFF
Jun-24	100.00%	100.00%	100.00%	99.55%	36.78%	OFF
Jul-24	99.89%	100.00%	100.00%	100.00%	99.84%	50.17%
Aug-24	99.87%	99.80%	99.87%	99.87%	100.00%	99.48%
Sep-24	100.00%	99.90%	100.00%	99.86%	99.72%	99.70%
Oct-24	99.23%	99.55%	0.00%	99.87%	94.89%	99.28%

ADDENDUM TO MONTHLY EMISSIONS REPORT

14. EFFICIENCY

ESP Efficiency (%)						
	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Nov-23	99.715%	99.499%	99.652%	99.764%	99.775%	99.705%
Dec-23	99.776%	99.585%	99.592%	99.414%	99.576%	99.667%
Jan-24	99.833%	99.641%	99.694%	99.692%	99.737%	99.721%
Feb-24	99.834%	99.719%	99.697%	99.788%	99.835%	Unit Off-line
Mar-24	99.519%	99.614%	99.393%	99.559%	99.474%	Unit Off-line
Apr-24	99.901%	99.698%	99.774%	99.704%	99.714%	Unit Off-line
May-24	99.906%	99.582%	99.771%	99.525%	99.654%	Unit Off-line
Jun-24	99.89%	99.55%	99.82%	99.62%	99.75%	Unit Off-line
Jul-24	99.848%	99.125%	99.796%	99.588%	99.735%	99.450%
Aug-24	99.845%	99.625%	99.749%	99.755%	99.769%	99.907%
Sep-24	99.789%	99.660%	99.775%	99.644%	99.675%	99.896%
Oct-24	99.866%	99.716%	Unit Off-lin	99.669%	99.637%	99.856%

15. REMARKS

UNIT	MWLOSS	REASON	ACTUALSTARTDATE	ACTUALENDDATE
1	593	Boiler tube leak	2024/10/01 00:00:00	2024/10/01 23:50:00
1	297	System Generated Ramp Event for Event id : 1980700	2024/10/01 23:50:00	2024/10/02 02:50:00
1	343	AM: LH ID fan motor down to earth	2024/10/02 02:50:00	2024/10/02 04:09:00
1	307	AM: LH ID fan motor down to earth	2024/10/02 04:09:00	2024/10/02 04:46:00
1	270	AM: LH ID fan motor down to earth	2024/10/02 04:46:00	2024/10/02 05:00:00
1	178	AM: LH ID fan motor down to earth	2024/10/02 05:00:00	2024/10/02 05:09:00
1	163	AM: LH ID fan motor down to earth	2024/10/02 05:09:00	2024/10/02 05:21:00
1	188	AM: LH ID fan motor down to earth	2024/10/02 05:21:00	2024/10/02 05:28:00
1	291	AM: LH ID fan motor down to earth	2024/10/02 05:28:00	2024/10/02 06:10:00
1	215	AM: IP turbine control v/v 1&3 closed.	2024/10/02 06:10:00	2024/10/02 07:35:00
1	213	Spinning Reserve	2024/10/02 07:35:00	2024/10/02 08:29:00
1	100	Fifth mill unavailable	2024/10/02 17:25:00	2024/10/03 01:46:00
1	593	Boiler tube leak	2024/10/03 01:46:00	2024/10/06 04:36:00
1	297	System Generated Ramp Event for Event id : 1984841	2024/10/06 04:36:00	2024/10/06 07:36:00
1	208	Spinning Reserve	2024/10/06 07:36:00	2024/10/06 12:21:00
1	120	Spinning Reserve	2024/10/06 12:21:00	2024/10/06 13:34:00
1	118	AM: 5th mill not available. Mill f g/box lube oil contaminated.	2024/10/06 14:44:00	2024/10/06 18:14:00
1	19	ID fans not coping due to ducting wear	2024/10/06 18:14:00	2024/10/09 06:18:00
1	200	Spinning Reserve	2024/10/08 08:09:00	2024/10/08 15:00:00
1	200	Coal bunker levels low	2024/10/08 15:00:00	2024/10/08 17:19:00
1	149	Coal bunker levels low	2024/10/08 17:19:00	2024/10/08 19:47:00
1	246	EF: Coal bunkers level low	2024/10/08 19:47:00	2024/10/08 21:21:00
1	225	Coal bunkers levels low	2024/10/08 21:21:00	2024/10/09 05:12:00
1	122	Coal bunkers levels low	2024/10/09 05:12:00	2024/10/09 05:44:00
1	98	Coal bunkers levels low	2024/10/09 05:44:00	2024/10/09 06:05:00
1	46	Coal bunkers levels low	2024/10/09 06:05:00	2024/10/09 06:10:00
1	20	Coal bunkers levels low	2024/10/09 06:10:00	2024/10/09 06:18:00
1	18	ID fans not coping due to ducting wear	2024/10/09 06:18:00	2024/10/14 15:48:00
1	117	AM: Mill feeders o/c X2D + E long.	2024/10/10 06:12:00	2024/10/11 15:24:00
1	30	D&E mills in service with one feeder each	2024/10/11 15:24:00	2024/10/11 15:46:00
1	63	D&E mills in service with one feeder each	2024/10/11 15:46:00	2024/10/12 04:45:00
1	136	Coal preservation	2024/10/11 22:42:00	2024/10/12 04:45:00
1	152	D&E mills in service with one feeder each	2024/10/12 04:45:00	2024/10/12 05:14:00
1	120	D&E mills in service with one feeder each	2024/10/12 05:14:00	2024/10/12 05:42:00
1	98	D&E mills in service with one feeder each	2024/10/12 05:42:00	2024/10/12 05:50:00
1	49	D&E Mills running one feeder each	2024/10/12 05:50:00	2024/10/12 23:47:00
1	100	AM: LHO precip casing repairs	2024/10/12 23:47:00	2024/10/13 23:46:00
1	40	EF: High furnace pressure	2024/10/13 01:56:00	2024/10/13 04:58:00
1	40	Spinning Reserve	2024/10/13 02:39:00	2024/10/13 03:06:00
1	99	EF: High furnace pressure	2024/10/13 23:46:00	2024/10/14 00:27:00
1	200	EF:High stack emissions	2024/10/14 00:27:00	2024/10/14 05:16:00
1	10	Boiler pressure unstable	2024/10/14 05:16:00	2024/10/14 11:38:00
1	90	Spinning Reserve	2024/10/14 07:44:00	2024/10/14 11:38:00
1	8	Boiler pressure unstable.	2024/10/14 11:38:00	2024/10/14 15:48:00
1	28	ID fans not coping due to ducting wear	2024/10/14 15:48:00	2024/10/15 17:01:00
1	22	poor condenser vacuum	2024/10/14 15:48:00	2024/10/15 04:55:00
1	164	Clean wrapping.	2024/10/15 01:42:00	2024/10/15 04:55:00
1	28	Poor condenser vacuum	2024/10/15 04:55:00	2024/10/15 05:05:00
1	22	Poor condenser vacuum	2024/10/15 05:05:00	2024/10/15 17:01:00
1	18	AM: ID fans not coping due to ducting wear	2024/10/15 17:01:00	2024/10/21 09:15:00

1	195	Spinning Reserve	2024/10/17 09:32:00	2024/10/17 09:45:00
1	172	Spinning Reserve	2024/10/17 11:46:00	2024/10/17 12:40:00
1	195	Spinning Reserve	2024/10/17 21:22:00	2024/10/18 04:46:00
1	593	Boiler tube leak	2024/10/21 09:15:00	2024/10/24 03:40:00
1	297	System Generated Ramp Event for Event id : 1991974	2024/10/24 03:40:00	2024/10/24 06:40:00
1	118	A Mill JOP faulty & D mills 4000hrs service	2024/10/24 06:40:00	2024/10/24 13:43:00
1	18	AM: ID fans not coping - ducting damage.	2024/10/24 13:43:00	2024/10/31 23:59:59
1	200	Spinning Reserve	2024/10/27 23:17:00	2024/10/28 00:54:00
1	177	Spinning Reserve	2024/10/28 13:00:00	2024/10/28 14:56:00
1	129	Spinning Reserve	2024/10/28 14:56:00	2024/10/28 16:13:00
1	100	KHI Lowering	2024/10/30 00:02:00	2024/10/30 02:48:00
1	200	Spinning Reserve	2024/10/30 13:31:00	2024/10/30 16:41:00
2	18	ID fans not coping	2024/10/01 00:00:00	2024/10/01 07:59:00
2	196	AM: A Bucket elevator repairs.	2024/10/01 00:00:00	2024/10/01 07:59:00
2	50	C-mill tripped due to bearing temp high.	2024/10/01 07:17:00	2024/10/01 07:59:00
2	593	Unit tripped low drum	2024/10/01 07:59:00	2024/10/01 18:26:00
2	296	System Generated Ramp Event for Event id : 1984086	2024/10/01 18:26:00	2024/10/01 20:56:00
2	213	A&B Mills not availabe/F mill running with one feeder	2024/10/01 20:56:00	2024/10/01 22:29:00
2	138	A&B Mills not availabe/F mill running with one feeder	2024/10/01 22:29:00	2024/10/02 00:16:00
2	200	A&B Mills not availabe/F mill running with one feeder	2024/10/02 00:16:00	2024/10/02 00:33:00
2	186	A&B Mills not availabe/F mill running with one feeder	2024/10/02 00:33:00	2024/10/02 01:02:00
2	166	A&B Mills not availabe/F mill running with one feeder	2024/10/02 01:02:00	2024/10/02 02:59:00
2	118	AM: A mill Trunnion bearing PF leak & B mills grease system fault	2024/10/02 02:59:00	2024/10/02 17:53:00
2	99	Spinning Reserve	2024/10/02 09:03:00	2024/10/02 17:53:00
2	121	A mill Trunnion bearing PF leak & B mills grease system fault	2024/10/02 17:53:00	2024/10/03 06:45:00
2	37	Spinning Reserve	2024/10/02 18:38:00	2024/10/02 21:53:00
2	35	Boiler pressure unstable	2024/10/02 19:19:00	2024/10/03 06:45:00
2	57	Spinning Reserve	2024/10/02 21:53:00	2024/10/03 06:00:00
2	121	2A bucket elevator repairs	2024/10/03 06:45:00	2024/10/03 15:23:00
2	91	Spinning Reserve	2024/10/03 09:32:00	2024/10/03 15:23:00
2	118	2A bucket elevator repairs	2024/10/03 15:23:00	2024/10/03 18:04:00
2	14	Fifth mill not available.	2024/10/03 15:26:00	2024/10/03 16:09:00
2	18	Fifth mill not available.	2024/10/03 16:09:00	2024/10/03 17:21:00
2	37	Fifth mill not available.	2024/10/03 17:21:00	2024/10/03 17:43:00
2	27	Fifth mill not available.	2024/10/03 17:43:00	2024/10/03 18:14:00
2	34	A mill right hand feeder faulty.	2024/10/03 18:04:00	2024/10/03 18:16:00
2	21	A mill right hand feeder faulty	2024/10/03 18:16:00	2024/10/04 16:44:00
2	44	Spinning Reserve	2024/10/04 01:29:00	2024/10/04 01:57:00
2	112	Spinning Reserve	2024/10/04 01:57:00	2024/10/04 05:44:00
2	194	Spinning Reserve	2024/10/04 08:23:00	2024/10/04 08:39:00
2	214	Spinning Reserve	2024/10/04 08:39:00	2024/10/04 10:05:00
2	198	Spinning Reserve	2024/10/04 10:05:00	2024/10/04 10:33:00
2	142	Spinning Reserve	2024/10/04 10:33:00	2024/10/04 10:59:00
2	206	Spinning Reserve	2024/10/04 10:59:00	2024/10/04 11:13:00
2	215	Spinning Reserve	2024/10/04 11:13:00	2024/10/04 16:44:00
2	118	High stack emissions.	2024/10/04 16:44:00	2024/10/04 22:08:00
2	593	Spray water valve repairs	2024/10/04 22:08:00	2024/10/06 10:08:00
2	593	1986336 slip	2024/10/06 10:08:00	2024/10/06 11:42:00
2	297	System Generated Ramp Event for Event id : 1986336	2024/10/06 11:42:00	2024/10/06 14:42:00
2	208	AM: Combustion control faulty.	2024/10/06 14:42:00	2024/10/06 15:16:00
2	115	AM: Combustion control flty.	2024/10/06 15:16:00	2024/10/07 08:57:00
2	103	Spinning Reserve	2024/10/07 07:31:00	2024/10/07 08:28:00
2	96	Boiler pressure unstable.	2024/10/07 08:57:00	2024/10/07 09:52:00
2	28	Boiler pressure unstable due to mills on manual	2024/10/07 09:52:00	2024/10/15 08:46:00
2	86	Spinning Reserve	2024/10/08 07:17:00	2024/10/08 08:28:00
2	188	Spinning Reserve	2024/10/08 08:28:00	2024/10/08 15:00:00
2	190	Coal bunker levels low	2024/10/08 15:00:00	2024/10/08 17:29:00
2	140	Coal bunker levels low	2024/10/08 17:29:00	2024/10/08 20:04:00
2	188	Coal bunkers levels low.	2024/10/08 20:04:00	2024/10/09 00:14:00
2	188	EF: High stack emissions	2024/10/09 00:14:00	2024/10/09 07:15:00
2	140	EF: High stack emissions	2024/10/09 07:15:00	2024/10/10 04:45:00
2	50	Spinning Reserve	2024/10/09 10:17:00	2024/10/09 15:28:00
2	83	High stack emissions	2024/10/10 04:45:00	2024/10/10 05:19:00
2	10	High stack emissions	2024/10/10 05:19:00	2024/10/10 05:38:00
2	190	High stack emissions	2024/10/10 10:12:00	2024/10/10 17:18:00
2	300	EFP A tripped	2024/10/10 17:34:00	2024/10/10 18:04:00

2	254	AM: A EFP bearing temp high.	2024/10/10 18:04:00	2024/10/10 21:44:00
2	188	High stack emissions	2024/10/10 21:44:00	2024/10/11 08:18:00
2	140	High stack emissions	2024/10/11 08:18:00	2024/10/11 13:11:00
2	184	High stack emissions	2024/10/11 13:11:00	2024/10/11 16:26:00
2	137	High stack emissions	2024/10/11 16:26:00	2024/10/11 21:54:00
2	69	A Mill tripped	2024/10/11 18:34:00	2024/10/11 21:54:00
2	188	Coal bunker level low	2024/10/11 21:54:00	2024/10/12 04:50:00
2	141	D&E mills in service with one feeder each	2024/10/12 04:50:00	2024/10/12 04:59:00
2	115	D&E mills in service with one feeder each	2024/10/12 04:59:00	2024/10/12 05:04:00
2	91	B&F Mills defective	2024/10/12 05:04:00	2024/10/15 08:46:00
2	96	High stack emissions	2024/10/12 09:35:00	2024/10/12 17:04:00
2	112	AM: LH air heater tripped.	2024/10/12 22:37:00	2024/10/13 02:27:00
2	99	Spinning Reserve	2024/10/13 02:51:00	2024/10/13 03:07:00
2	50	Spinning Reserve	2024/10/13 03:07:00	2024/10/13 03:26:00
2	99	EF:High stack emissions	2024/10/13 20:09:00	2024/10/14 04:35:00
2	118	AM: No fifth mill available(B&F mill defective)	2024/10/15 08:46:00	2024/10/21 16:31:00
2	98	Spinning Reserve	2024/10/17 07:09:00	2024/10/17 15:17:00
2	49	Spinning Reserve	2024/10/17 20:09:00	2024/10/18 04:10:00
2	47	High stack emissions	2024/10/18 07:18:00	2024/10/18 07:59:00
2	94	EF: Manual rapping	2024/10/18 20:22:00	2024/10/18 21:25:00
2	94	EF: High stack emissions.	2024/10/18 21:25:00	2024/10/19 15:06:00
2	45	EF:High stack emissions	2024/10/19 15:06:00	2024/10/19 20:14:00
2	50	Spinning Reserve	2024/10/19 15:06:00	2024/10/19 17:50:00
2	40	Spinning Reserve	2024/10/19 20:14:00	2024/10/19 21:59:00
2	50	Spinning Reserve	2024/10/20 00:45:00	2024/10/20 00:58:00
2	94	Spinning Reserve	2024/10/20 00:58:00	2024/10/20 05:17:00
2	79	Spinning Reserve	2024/10/20 05:17:00	2024/10/20 07:35:00
2	98	Spinning Reserve	2024/10/20 07:35:00	2024/10/20 18:57:00
2	32	Spinning Reserve	2024/10/20 18:57:00	2024/10/21 00:33:00
2	93	Spinning Reserve	2024/10/21 00:33:00	2024/10/21 03:25:00
2	94	Spinning Reserve	2024/10/21 03:56:00	2024/10/21 08:31:00
2	26	Boiler pressure unstable	2024/10/21 16:31:00	2024/10/21 17:26:00
2	18	Boiler pressure unstable	2024/10/21 17:26:00	2024/10/31 18:42:00
2	94	Spinning Reserve	2024/10/22 07:08:00	2024/10/22 08:27:00
2	180	Spinning Reserve	2024/10/22 08:27:00	2024/10/22 12:14:00
2	100	Spinning Reserve	2024/10/22 12:14:00	2024/10/22 16:19:00
2	199	Spinning Reserve	2024/10/22 21:53:00	2024/10/22 23:58:00
2	100	Spinning Reserve	2024/10/22 23:58:00	2024/10/23 13:05:00
2	185	T13B coveyor belt torn	2024/10/23 22:59:00	2024/10/24 09:13:00
2	10	AM: C mill short feeder O/C	2024/10/24 09:13:00	2024/10/24 09:27:00
2	100	High stack emissions.	2024/10/24 20:25:00	2024/10/25 00:17:00
2	94	Spinning Reserve	2024/10/25 07:19:00	2024/10/25 16:16:00
2	150	Spinning Reserve	2024/10/26 21:42:00	2024/10/27 00:00:00
2	150	T12B BELT INSERT	2024/10/27 00:00:00	2024/10/27 17:32:00
2	40	Spinning Reserve	2024/10/27 08:00:00	2024/10/27 13:01:00
2	41	Spinning Reserve	2024/10/27 15:09:00	2024/10/27 17:32:00
2	191	Spinning Reserve	2024/10/27 17:32:00	2024/10/27 18:43:00
2	100	Spinning Reserve	2024/10/27 18:43:00	2024/10/27 21:29:00
2	200	Spinning Reserve	2024/10/27 21:29:00	2024/10/28 05:33:00
2	100	Spinning Reserve	2024/10/28 05:33:00	2024/10/28 07:01:00
2	193	Spinning Reserve	2024/10/28 07:01:00	2024/10/28 15:54:00
2	100	Spinning Reserve	2024/10/28 15:54:00	2024/10/28 16:58:00
2	100	Spinning Reserve	2024/10/29 00:47:00	2024/10/29 11:06:00
2	196	Spinning Reserve	2024/10/29 11:06:00	2024/10/29 14:35:00
2	100	Spinning Reserve	2024/10/29 14:35:00	2024/10/29 16:35:00
2	18	Spinning Reserve	2024/10/29 16:35:00	2024/10/29 17:01:00
2	8	Spinning Reserve	2024/10/29 17:01:00	2024/10/30 00:20:00
2	100	Spinning Reserve	2024/10/30 00:20:00	2024/10/30 16:42:00
2	26	AM: ID Fans not coping. Ducting flts.	2024/10/31 18:42:00	2024/10/31 20:00:00
2	18	AM: ID Fans not coping. Ducting flts.	2024/10/31 20:00:00	2024/10/31 23:59:59
3	593	IR ESP & S03 PLANT	2024/10/01 00:00:00	2024/10/31 23:59:59
4	118	A mill service	2024/10/01 00:00:00	2024/10/07 00:00:00
4	60	AM: Fifth mill unavailable and C mill short feeder O/C	2024/10/01 00:00:00	2024/10/02 15:30:00
4	34	Spinning Reserve	2024/10/02 15:01:00	2024/10/02 15:30:00
4	63	AM: Fifth mill unavailable and C mill short feeder O/C	2024/10/02 15:30:00	2024/10/02 15:56:00
4	60	AM: Fifth mill unavailable and C mill short feeder O/C	2024/10/02 15:56:00	2024/10/03 15:23:00

4	35	Spinning Reserve	2024/10/02 23:33:00	2024/10/03 05:48:00
4	32	Spinning Reserve	2024/10/03 07:38:00	2024/10/03 15:23:00
4	73	Fifth mill unavailable and C mill short feeder O/C	2024/10/03 15:23:00	2024/10/04 18:02:00
4	23	Dust plant standing	2024/10/04 05:03:00	2024/10/04 18:02:00
4	77	Fifth mill unavailable and C mill short feeder O/C	2024/10/04 18:02:00	2024/10/04 19:23:00
4	60	Fifth mill unavailable and C mill short feeder O/C	2024/10/04 19:23:00	2024/10/05 20:00:00
4	39	Spinning Reserve	2024/10/05 10:20:00	2024/10/05 18:28:00
4	26	Spinning Reserve	2024/10/05 18:28:00	2024/10/05 18:59:00
4	43	Spinning Reserve	2024/10/05 18:59:00	2024/10/05 20:00:00
4	100	AM: 5th mill unavailable & C mill short feeder O/C	2024/10/05 20:00:00	2024/10/07 00:00:00
4	118	A mill service.	2024/10/07 00:00:00	2024/10/12 19:53:00
4	97	5th mill unavailable & C mill short feeder O/C	2024/10/07 00:00:00	2024/10/07 07:41:00
4	73	PA flow high due to mill stripping not done	2024/10/07 07:41:00	2024/10/08 08:08:00
4	25	C-mill short feeder faulty	2024/10/07 07:41:00	2024/10/08 12:16:00
4	35	PA flow high due to mill stripping not done	2024/10/08 08:08:00	2024/10/08 12:16:00
4	36	Spinning Reserve	2024/10/08 08:48:00	2024/10/08 13:45:00
4	22	PA flow high due to mill stripping not done	2024/10/08 12:16:00	2024/10/09 18:50:00
4	38	C-mill short feeder faulty	2024/10/08 12:16:00	2024/10/12 19:53:00
4	43	EF: High PA flows	2024/10/09 18:50:00	2024/10/09 21:11:00
4	22	EF: High PA flows	2024/10/09 21:11:00	2024/10/12 19:53:00
4	593	Unit trip on Delta T's	2024/10/12 19:54:00	2024/10/12 23:23:00
4	297	System Generated Ramp Event for Event id : 1988927	2024/10/12 23:23:00	2024/10/13 00:53:00
4	118	AM: A mill maintenance	2024/10/13 00:53:00	2024/10/13 06:55:00
4	34	AM: High PA flows	2024/10/13 00:53:00	2024/10/13 06:55:00
4	38	AM: C mill short feeder O/C	2024/10/13 00:53:00	2024/10/13 06:55:00
4	593	Unit 4 tripped on black furnace	2024/10/13 06:55:00	2024/10/13 17:22:00
4	296	System Generated Ramp Event for Event id : 1989130	2024/10/13 17:22:00	2024/10/13 19:52:00
4	118	AM: A mill maintenance	2024/10/13 19:52:00	2024/10/15 02:41:00
4	36	F Mill defective	2024/10/13 19:52:00	2024/10/14 14:05:00
4	68	Spinning Reserve	2024/10/14 09:01:00	2024/10/14 09:07:00
4	84	Spinning Reserve	2024/10/14 09:07:00	2024/10/14 11:41:00
4	85	B mill LH feeder block chute detector and RH feeder clutch faulty	2024/10/14 11:41:00	2024/10/14 12:13:00
4	65	Spinning Reserve	2024/10/14 12:13:00	2024/10/14 13:49:00
4	13	Spinning Reserve	2024/10/14 13:49:00	2024/10/14 14:05:00
4	42	F-mill defective	2024/10/14 14:05:00	2024/10/14 15:19:00
4	52	F-mill defective	2024/10/14 15:19:00	2024/10/14 18:59:00
4	65	F-mill defective.	2024/10/14 18:59:00	2024/10/15 00:50:00
4	24	5th mill unavailable	2024/10/15 00:50:00	2024/10/15 02:41:00
4	118	A mill service.	2024/10/15 02:41:00	2024/10/17 00:00:00
4	47	High stack emissions.	2024/10/15 20:15:00	2024/10/16 01:00:00
4	49	Spinning Reserve	2024/10/16 01:00:00	2024/10/16 05:15:00
4	118	C Mill 4000hrs service	2024/10/17 00:00:00	2024/10/17 16:02:00
4	118	Spinning Reserve	2024/10/17 07:20:00	2024/10/17 08:52:00
4	218	Spinning Reserve	2024/10/17 08:52:00	2024/10/17 09:42:00
4	118	AM: C mill 4000hrs service	2024/10/17 16:02:00	2024/10/18 04:45:00
4	98	Spinning Reserve	2024/10/17 20:05:00	2024/10/18 04:45:00
4	121	AM: C mill 4000hrs service	2024/10/18 04:45:00	2024/10/19 18:13:00
4	95	RH FD fan motor bearing temp high.	2024/10/18 17:30:00	2024/10/19 00:30:00
4	94	AM: Both bucket elevators tripped on bottom alignment.	2024/10/19 03:28:00	2024/10/19 13:20:00
4	97	Spinning Reserve	2024/10/19 13:20:00	2024/10/19 17:57:00
4	8	Boiler pressure unstable	2024/10/19 17:57:00	2024/10/19 18:13:00
4	118	AM: C mill 4000hrs service	2024/10/19 18:13:00	2024/10/22 15:51:00
4	100	Spinning Reserve	2024/10/20 01:03:00	2024/10/20 05:04:00
4	95	Spinning Reserve	2024/10/20 07:43:00	2024/10/20 18:58:00
4	31	Spinning Reserve	2024/10/20 18:58:00	2024/10/21 00:37:00
4	93	Spinning Reserve	2024/10/21 00:37:00	2024/10/21 03:13:00
4	50	Spinning Reserve	2024/10/21 03:13:00	2024/10/21 06:45:00
4	95	Spinning Reserve	2024/10/21 06:45:00	2024/10/21 08:36:00
4	95	Spinning Reserve	2024/10/22 06:55:00	2024/10/22 15:51:00
4	121	AM: C mill 4000hrs service	2024/10/22 15:51:00	2024/10/22 17:23:00
4	118	AM: C mill 4000hrs service	2024/10/22 17:23:00	2024/10/27 00:01:00
4	104	Spinning Reserve	2024/10/23 00:34:00	2024/10/23 01:36:00
4	23	Spinning Reserve	2024/10/23 06:31:00	2024/10/23 14:21:00
4	99	B-mill coal bunker empty	2024/10/23 14:23:00	2024/10/23 14:44:00
4	120	B-mill coal bunker empty	2024/10/23 14:44:00	2024/10/23 17:32:00
4	40	B-mill running with one feeder.	2024/10/23 17:32:00	2024/10/24 06:59:00

4	99	Spinning Reserve	2024/10/25 07:25:00	2024/10/25 16:28:00
4	95	Manual rapping	2024/10/25 20:15:00	2024/10/25 21:00:00
4	95	4A bucket belt replacement	2024/10/25 21:00:00	2024/10/26 04:52:00
4	95	EF: High stack emissions	2024/10/26 07:16:00	2024/10/26 08:18:00
4	104	High stack emissions	2024/10/26 08:18:00	2024/10/27 11:28:00
4	118	No 5th mill available and C mill feeders O/C	2024/10/27 00:01:00	2024/10/27 23:59:00
4	45	Spinning Reserve	2024/10/27 10:44:00	2024/10/27 18:53:00
4	97	Spinning Reserve	2024/10/27 21:20:00	2024/10/27 22:02:00
4	92	Spinning Reserve	2024/10/27 22:02:00	2024/10/28 03:53:00
4	118	D mill PF leak repairs	2024/10/27 23:59:00	2024/10/31 23:59:59
4	96	5B MCW motor filter cleaning	2024/10/29 21:16:00	2024/10/30 03:15:00
4	100	Manual rapping	2024/10/31 20:35:00	2024/10/31 23:50:00
5	28	AM ID Fans not coping due to ducting wear	2024/10/01 00:00:00	2024/10/01 04:15:00
5	183	EF: Manual rapping	2024/10/01 00:00:00	2024/10/01 00:02:00
5	187	EF: High stack emissions	2024/10/01 00:02:00	2024/10/01 03:51:00
5	103	EF: High stack emissions	2024/10/01 03:51:00	2024/10/01 04:15:00
5	36	AM: ID fans not coping due to ducting wear.	2024/10/01 04:15:00	2024/10/02 04:27:00
5	75	Spinning Reserve	2024/10/01 10:23:00	2024/10/01 16:00:00
5	79	Spinning Reserve	2024/10/01 23:28:00	2024/10/02 04:27:00
5	37	AM: ID fans not coping due to ducting wear	2024/10/02 04:27:00	2024/10/02 04:35:00
5	29	ID Fans not coping due to ducting wear	2024/10/02 04:35:00	2024/10/02 06:07:00
5	18	ID Fans not coping due to ducting wear	2024/10/02 06:07:00	2024/10/10 19:01:00
5	95	Spinning Reserve	2024/10/02 08:02:00	2024/10/02 17:45:00
5	97	EF:High stack emissions	2024/10/02 20:16:00	2024/10/03 05:21:00
5	101	Spinning Reserve	2024/10/02 23:48:00	2024/10/03 05:52:00
5	6	EF:High stack emissions	2024/10/03 05:21:00	2024/10/03 05:33:00
5	98	Spinning Reserve	2024/10/03 07:53:00	2024/10/03 09:44:00
5	196	Spinning Reserve	2024/10/03 09:44:00	2024/10/03 15:26:00
5	60	Spinning Reserve	2024/10/03 15:26:00	2024/10/03 16:44:00
5	199	SSC Tail end sprocket repair	2024/10/04 00:00:00	2024/10/04 04:41:00
5	115	SSC Tail end sprocket repair	2024/10/04 04:41:00	2024/10/04 04:59:00
5	118	Spinning Reserve	2024/10/04 08:23:00	2024/10/04 08:34:00
5	200	High stack emissions.	2024/10/04 15:51:00	2024/10/04 16:14:00
5	100	High stack emissions.	2024/10/04 16:14:00	2024/10/04 19:54:00
5	195	High stack emissions	2024/10/04 19:54:00	2024/10/05 06:04:00
5	138	High stack emissions.	2024/10/05 06:04:00	2024/10/05 06:57:00
5	98	High stack emissions	2024/10/05 19:58:00	2024/10/06 00:00:00
5	98	LHI precip casing repairs	2024/10/06 00:00:00	2024/10/06 23:59:00
5	102	Spinning Reserve	2024/10/06 07:33:00	2024/10/06 12:13:00
5	21	Spinning Reserve	2024/10/06 12:13:00	2024/10/06 12:29:00
5	100	Spinning Reserve	2024/10/06 23:59:00	2024/10/07 01:27:00
5	195	Spinning Reserve	2024/10/07 01:27:00	2024/10/07 03:13:00
5	150	Spinning Reserve	2024/10/07 03:13:00	2024/10/07 03:44:00
5	97	Spinning Reserve	2024/10/07 07:10:00	2024/10/07 07:58:00
5	200	Spinning Reserve	2024/10/08 08:58:00	2024/10/08 10:35:00
5	99	EF: High stack emissions	2024/10/08 19:46:00	2024/10/09 00:01:00
5	100	Spinning Reserve	2024/10/09 11:57:00	2024/10/09 15:21:00
5	98	EF: High stack emissions	2024/10/09 21:26:00	2024/10/10 00:14:00
5	18	AM: ID Fans not coping - ducting damage.	2024/10/10 19:01:00	2024/10/22 16:47:00
5	95	AM: Mill B feeders o/c.	2024/10/10 19:01:00	2024/10/10 19:30:00
5	197	EF: Manual rapping	2024/10/10 20:30:00	2024/10/10 21:51:00
5	115	EF: Manual rapping	2024/10/10 21:51:00	2024/10/10 22:25:00
5	200	EF: High stack emissions	2024/10/10 22:25:00	2024/10/11 10:52:00
5	150	EF: High stack emissions	2024/10/11 10:52:00	2024/10/12 00:00:00
5	100	LH Inner precip casing repairs	2024/10/12 00:00:00	2024/10/13 00:00:00
5	100	AM: A&C mills not available.	2024/10/13 00:00:00	2024/10/13 02:50:00
5	97	High stack emissions	2024/10/13 14:07:00	2024/10/13 17:09:00
5	200	EF:High stack emissions	2024/10/13 19:46:00	2024/10/14 00:28:00
5	100	EF: High stack emissions	2024/10/15 12:35:00	2024/10/15 13:05:00
5	199	High stack emissions.	2024/10/15 19:28:00	2024/10/16 08:19:00
5	100	AM: High stack emissions.	2024/10/16 08:19:00	2024/10/16 17:07:00
5	203	Spinning Reserve	2024/10/17 19:51:00	2024/10/18 04:17:00
5	236	T11E BELT INSERT	2024/10/20 00:41:00	2024/10/20 15:55:00
5	120	Spinning Reserve	2024/10/20 18:56:00	2024/10/20 19:42:00
5	18	AM: ID fans not coping due to internal fault.	2024/10/24 09:09:00	2024/10/25 18:24:00
5	198	High stack emissions	2024/10/25 00:37:00	2024/10/25 17:05:00

5	100	AM: High stack emissions.	2024/10/25 17:05:00	2024/10/25 18:24:00
5	118	RHI Precip Casing repairs	2024/10/26 02:16:00	2024/10/26 23:30:00
5	118	Spinning Reserve	2024/10/27 16:21:00	2024/10/27 18:36:00
5	217	Spinning Reserve	2024/10/27 23:16:00	2024/10/28 00:53:00
5	111	Spinning Reserve	2024/10/29 00:31:00	2024/10/29 09:37:00
5	214	Spinning Reserve	2024/10/29 09:37:00	2024/10/29 13:44:00
5	111	Spinning Reserve	2024/10/29 13:44:00	2024/10/29 16:19:00
5	216	5B MCW motor filter cleaning	2024/10/29 22:09:00	2024/10/30 03:14:00
5	216	Spinning Reserve	2024/10/30 03:14:00	2024/10/30 05:21:00
5	214	Spinning Reserve	2024/10/30 08:02:00	2024/10/30 15:53:00
5	213	Spinning Reserve	2024/10/31 08:03:00	2024/10/31 09:28:00
5	118	Spinning Reserve	2024/10/31 09:28:00	2024/10/31 11:04:00
5	88	Boiler unstable due to tube leak.	2024/10/31 19:53:00	2024/10/31 20:18:00
5	106	EF: ID Fans not coping - ducting flts.	2024/10/31 20:18:00	2024/10/31 23:59:59
5	112	Manual rapping	2024/10/31 22:22:00	2024/10/31 23:59:59
6	28	AM: Safety v/v lifting.	2024/10/01 00:00:00	2024/10/02 04:26:00
6	40	Spinning Reserve	2024/10/01 23:18:00	2024/10/02 04:26:00
6	48	AM: Safety v/v lifting	2024/10/02 04:26:00	2024/10/02 21:32:00
6	68	Spinning Reserve	2024/10/02 08:22:00	2024/10/02 18:14:00
6	30	AM: Boiler Safety v/v lifting	2024/10/02 21:32:00	2024/10/03 06:11:00
6	40	Spinning Reserve	2024/10/02 23:54:00	2024/10/03 06:03:00
6	32	AM: Boiler Safety v/v lifting	2024/10/03 06:11:00	2024/10/04 05:28:00
6	67	Spinning Reserve	2024/10/03 09:40:00	2024/10/03 16:21:00
6	40	Spinning Reserve	2024/10/04 01:50:00	2024/10/04 05:28:00
6	33	AM: Boiler Safety v/v lifting	2024/10/04 05:28:00	2024/10/04 09:08:00
6	38	Boiler Safety v/v lifting	2024/10/04 09:08:00	2024/10/06 16:38:00
6	80	Spinning Reserve	2024/10/04 14:10:00	2024/10/04 16:37:00
6	180	Spinning Reserve	2024/10/05 11:21:00	2024/10/05 19:02:00
6	83	Spinning Reserve	2024/10/05 19:02:00	2024/10/05 20:34:00
6	82	D mill not available	2024/10/05 20:34:00	2024/10/05 21:10:00
6	80	Spinning Reserve	2024/10/05 21:10:00	2024/10/06 00:01:00
6	179	Spinning Reserve	2024/10/06 09:06:00	2024/10/06 12:51:00
6	142	Spinning Reserve	2024/10/06 12:51:00	2024/10/06 13:10:00
6	82	Spinning Reserve	2024/10/06 13:10:00	2024/10/06 15:10:00
6	177	SSC clinkers	2024/10/06 15:10:00	2024/10/06 16:38:00
6	593	MSSV repairs.	2024/10/06 16:38:00	2024/10/09 16:38:00
6	593	SSC clinker removal	2024/10/09 16:38:00	2024/10/26 18:02:00
6	297	System Generated Ramp Event for Event id : 1986490	2024/10/26 18:02:00	2024/10/26 21:02:00
6	119	Spinning Reserve	2024/10/26 21:02:00	2024/10/27 05:16:00
6	218	Spinning Reserve	2024/10/27 05:16:00	2024/10/27 18:48:00
6	118	Spinning Reserve	2024/10/27 18:48:00	2024/10/27 21:18:00
6	218	Spinning Reserve	2024/10/27 21:18:00	2024/10/28 05:17:00
6	118	Spinning Reserve	2024/10/28 05:17:00	2024/10/28 06:56:00
6	217	Spinning Reserve	2024/10/28 06:56:00	2024/10/28 15:57:00
6	119	Spinning Reserve	2024/10/28 15:57:00	2024/10/28 16:53:00
6	116	Spinning Reserve	2024/10/29 02:54:00	2024/10/29 09:08:00
6	217	Spinning Reserve	2024/10/29 09:08:00	2024/10/29 14:54:00
6	118	Spinning Reserve	2024/10/29 14:54:00	2024/10/29 15:48:00
6	115	5B MCW motor filter cleaning	2024/10/29 21:24:00	2024/10/30 03:14:00
6	116	Spinning Reserve	2024/10/30 03:14:00	2024/10/30 15:51:00
6	216	Spinning Reserve	2024/10/31 07:52:00	2024/10/31 09:28:00
6	118	Spinning Reserve	2024/10/31 09:28:00	2024/10/31 11:13:00
6	296	EFB B tripped on bearing temp high.	2024/10/31 15:51:00	2024/10/31 15:58:00
6	266	EF: EFB B tripped	2024/10/31 15:58:00	2024/10/31 16:30:00
6	120	EFB B tripped on bearing temp high.	2024/10/31 16:30:00	2024/10/31 19:14:00
6	168	Safety valve lifting	2024/10/31 19:14:00	2024/10/31 21:18:00
6	136	Safety valve lifting	2024/10/31 21:18:00	2024/10/31 23:59:59